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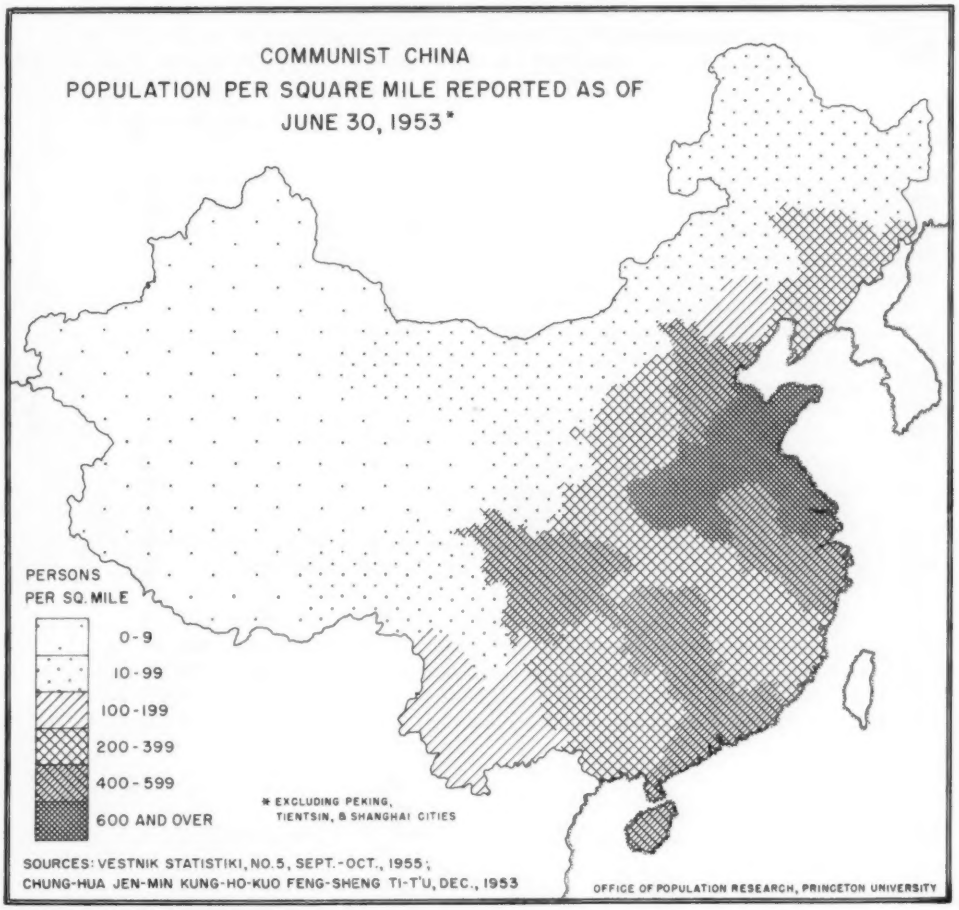

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POPULATION INDEX

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CURRENT ITEMS

POPULATION POLICIES IN COMMUNIST CHINA

On November 1, 1954, the State Statistics Administration of the Ministry of Internal Affairs of the People's Republic of China announced the results of a census-registration taken in major part as of midnight on June 30, 1953. [1] The total population was reported as 602 million. Deleting the 7.6 million Chinese accepted as the population of Taiwan and the 11.7 million other Chinese outside the Mainland left the population of the Mainland as 583 million. The Statistics Administration announced the results with considerable surety, for it was also reported that a selective resurvey of 53 million people had shown only 1.39 per 1,000 duplication and 2.55 per 1,000 omissions in the census survey. [2] There was also an official statement that a survey of more than 30 million people showed a birth rate of 37 per 1,000 total population, a death rate of 17, and hence a rate of natural increase of 20. [3] If these results are valid, a rate of natural increase of two per cent per year is producing annual increases amounting to more than 12 million.

The initial public reaction to the fact — or belief — that the numbers of the Chinese exceeded 600 million was one of jubilation. There was the ancient identification of numbers with the power of the state, the anticipation of greater power as numbers became greater, pride in China and the Chinese as the most populated of the world's lands and the most numerous of its peoples, derision of the skeptics who believed China weakened by its numbers. Pai Chien-hua of the Census Department of the Ministry of Internal Affairs acclaimed the 600 million as the "great force for Socialist reconstruction...the most precious of all the categories of capital," and ridiculed "the bourgeois economists who cling to bankrupt Malthusian theories of population." [4] China, he said, was a country with vast amounts of virgin land and unexplored natural resources where rates of growth in production far exceeded rates of population increase.

The Development of the Position

The propaganda against Neo-Malthusian imperialists and the omnipresent promises of a forthcoming millenium under the Communist order had been new and verbal aspects of the post-revolutionary period. The economic difficulties were ancient, and they were deep realities of daily living for the great majority of the people. Communist complaints that the vicious Malthusian thinking survived in academic circles must have meant that some analysts had retained perspective on the social and economic problems of China even during the period when numbers *per se* were considered an objective value and growth a proof of the rightness of an economic system.

One can only speculate as to what happened when the bureaucracy in Peking became immersed in the arithmetic of an overall five-year plan, a twelve-year plan for the development of agriculture, and plans of unspecified durations to educate all children and to extend the beneficent facilities of the state to all mothers. If the rate of growth were really two per cent per year and the count of 583 million for the Mainland population as of June 30, 1953, were accurate, the population would have increased to about 625 million by the end of 1956. There may be consid-

erable debate concerning the population capacity of China under conditions of maximum utilization of modern scientific knowledge. There can be little doubt that rates of natural increase of two to three per cent per year would retard the speed of any concurrent drives for industrialization, for advancing consumption levels, and for raising educational standards.

The population problem faced by Mainland China was similar to that in other Asian countries except that the magnitude was greater and the sense of urgency was stronger. Modernization that included economic development and health activities brought decreases in death rates but left birth rates relatively unaffected. Increasing rates of population growth brought social and economic problems that seemed to have no direct solutions. There was no way whereby birth rates could be reduced quickly and easily to correspond to the lowered death rates. The elimination of growth through deliberate raising of death rates was neither culturally nor politically feasible. The desires of the people for health and life were tremendous; reductions in the crusades to swat flies, kill mosquitoes, eliminate filth, and secure insecticides and antibiotics could not even be considered.

The problem of increasing population had no easy solution, but it was one that could not be evaded. All the sons of the peasants could not be absorbed efficiently in agriculture. Internal developments could provide opportunities for some of them, but continuing absorption of a natural increase such as that to be anticipated in a modernizing China would involve serious difficulties. The natural increase of one year would fill two islands the size of Taiwan; the natural increase of three or four years would fill an empty Manchuria as densely as it was settled in 1940. The accumulation of people in the villages was not a feasible solution to the problem, for the country needed surplus food from the rural areas to feed the proliferating urban and industrial populations. Moreover, food and agricultural commodities were needed for export in exchange for the materials and products essential to economic development.

The lines of analysis and the logical paths that were pursued in the conferences in Peking are unknown, but actions taken between the fall of 1954 and the present indicate substantial movement toward a decision to use the propaganda facilities and the administrative organization of the government to encourage urban and village dwellers alike to practice family limitation. Description and evaluation of the events that have already occurred and of the prospects for future pronouncements and activities are difficult. The detailed reports and studies of the central government are not available. The correspondence between directives from Peking and events in the peasant society can be judged only on the basis of the statements of journalists. The perspective on statements and activities alike is influenced to some unknown degree by the coloration created by filtration through the bamboo curtain.

The processes whereby the need for family limitation was accepted in theory and adopted as government policy should be noted in summary form prior to a somewhat more detailed consideration of the arguments in the propaganda, the question of means, and the procedures of implementation.

The hazardous transition from the orthodox Marxian position against "overpopulation" to concern over the burdens of bearing and rearing children was made without jeopardy to the central party organization or the publicized personalities of the regime. The main spokes-

man on the subject of birth control seems to have been Shao Li-tzu, [5] a deputy to the National People's Congress but a late convert from the old regime. [6] He spoke first to the People's Congress on September 18, 1954. Speculation as to the significance of his cautious statement was ended early in 1955 when people of unquestioned stature in the Party wrote in the official publications of various organizations. For instance, an article on the approach to the problem of birth control appeared in Hsin Chung-kuo fu-nü [New China's Woman], the journal of the All China Federation of Democratic Women. [7] Chou Ngo-feng, a gynecologist, described the techniques of contraception in Chung-kuo ch'ing-nien [China Youth], the organ of the Communist Youth League. [8] Major theorists defined the problem and divorced the concept of birth control from that of Neo-Malthusianism. [9] A legal basis was prepared that permitted not only contraception but also abortion and sterilization. Propaganda activities and actions were discussed, and some supplies and facilities were made available. An intensive campaign to extend knowledge and practice was ordered by the Minister of Health in early August of this year.

It is difficult to summarize the steps whereby the government of Mainland China accepted the extension of planned parenthood as one of its legitimate functions. There was no population commission, and there is no statement of government policy as such. The movement toward action has been cautious and circuitous. The first public statement, already noted, that of Deputy Shao Li-tzu to the National People's Congress on September 18, 1954, was much in the tradition of the past: China had great areas but there were calamities of a localized nature. Needs for development were great and the people were backward. An over-large population presented many problems. The difficulty stressed was that of building schools rapidly enough to keep up with the increasing numbers of children reaching school age each year. There were references to the sufferings of mothers with too many children; and denials of Neo-Malthusianism were coupled with references to Lenin. However, the argument proceeded from the national ills to the prescription of birth limitation for families.

The statement of a position that was pure from the standpoint of the Party had to resolve substantial ideological conflicts. The ancient problems of the rice lands presented few difficulties, for the survival of these man-land maladjustments under a socialist organization could be blamed on the iniquities of the old exploitative order. The new problems of the relations between economic development, public health, and rapid population increase were more difficult, for each of these individually was a vaunted goal of the new regime. The solution lay in repudiating Neo-Malthusianism and the economic arguments as to the retarding effects of high rates of growth but accepting birth limitation for personal, family, and party reasons.

The broad position that retains Marx, repudiates Malthus, hurls invectives at Neo-Malthusians, and advocates the limitation of births was presented by Yang Ssu-ying in Hsüeh-hsi [Study] on October 2, 1955. [10] Here, in the party's major journal for ideological studies, there has been no overt ideological compromise. Indeed, "the Malthusian theory of population is the most reactionary among the theories of the social sciences in capitalist society." There is no absolute overpopulation and there are no general demographic-economic laws. Instead, resting on page 796 of Vol. 1 of Marx's Capital as issued by the People's Publishing Press in 1953, Yang Ssu-ying states that "each special form of productive society has a special set of laws applicable to it." The relative population surpluses of the capitalist system were due to the operation

of the principle of wealth accumulation in the capitalist society. Under capitalism, there is "a continual increase in the ranks of the proletariat ...the supply of labor power surpassing the average needs for labor power on the part of the capitalist." Under the law of socialism, there is "a continuous and rapid increase in population accompanied, however, by a relatively higher standard of material well-being of the populace and by diminishing sickness and mortality rates with simultaneously a full and more rational utilization of employment of people possessing labor power."

In the Marxian view, Malthusian theory assumed protean forms even prior to its "overthrow" by developments in the U.S.S.R. and related areas. In the age of imperialism, Malthusian theory united with economic theory in creating the laws of diminishing returns and marginal productivity. In the days of capitalist collapse, Malthusian laws were used to rationalize the expansionism of Germany, Italy, and Japan. After the Second World War, Yang Ssu-ying sees "the warring bloc headed by the American imperialists" using Malthusian arguments to justify "...measures aiming at reduction of the general population figures of the world...." In fact, says Yang Ssu-ying, Malthusian theories are utterly groundless, since no "conceivable" rates of population increase can approach the rates of increase envisioned in the First Five Year Plan.

Then the theoretical hurdle from anti-Malthusianism to birth control is taken with a jibe:

> There are some people who having come across articles on methods of birth control in newspapers and magazines in our country are inclined gleefully to say, 'Look! The Communists too need Malthus no less than they need Marx.'

The crux of the arguments with reference to family limitation merit quotation:

> In giving publicity to notes on methods of birth control our newspapers and magazines had not been inspired by the belief that we were overpopulated. On the contrary, they did so having in mind that our country had been at one time a colonial or semi-colonial country and one that was semi-feudalistic and under imperialist rule so that economically, socially, culturally, and in regard to general welfare facilities we have been rather backward....Viewed from the standpoint of individual families, the fact that there are too many children in a family unduly increases the burden of the parents and affects adversely their work, their study of political doctrines, and their general livelihood. Similarly the children's education may be profoundly affected. In view of the above, in order to lessen the difficulties currently facing us, to protect the health of maternity womanhood and finally to ensure that the next generation may be brought up better, we are not at all opposed to birth control. At the same time the publicity given by certain newspapers and magazines to methods of birth control is also necessary as well as proper. This has no point in common with Malthus' theory at all....

The conclusion reverts to the campaign against Neo-Malthusianism. Since, it is argued, the circulation of the theory only serves the forces of reaction, "...we should, with firm resolve, refute and continue unceasingly to expose the deceptive nature of this reactionary and fallacious doctrine."

There is substantial evidence that the unbounded optimism of old and the undiluted orthodoxy of the Marxian thesis survive alongside the new duality in demographic argument. Chen Po-ta, one of the theorists of the Party, stated this position in a report submitted to the February 2, 1956, session of the Second Plenary Session of the Chinese People's Political Consultative Conference: [11]

> There are still some people in China who believe the preposterous 'theory of overpopulation' of Malthus. The collapse of the so-called law of diminishing returns of the fertility of soil is...a proof of the nonsense of the Malthusian population theory.... There is no sign of overpopulation in China. The truth is that China's agricultural productive power was seriously damaged by the reactionary rule of foreign imperialists, feudal landlords, and the Kuomintang before China was liberated....Of course we do not deny the importance of the food question to our work of Socialist construction. The way to solve this question is to change agriculture from the system of individual economy to the system of cooperation....

The proof of the nonexistence of a real population problem is held to lie in the target for grain production required by the National Program for Agriculture. The plan requires a doubling of grain output in twelve years. Thus, according to Chen Po-ta, "China can provide room for at least another 600 million people. Twelve years later, there will certainly be still greater developments in agriculture."

The Argument of the Propaganda

Marxian orthodoxy with its refusal to admit overpopulation, surplus population, the pressure of population on resources, or demographic deterrents to capital formation bars many of the arguments for birth control that have been prevalent in the West and in Japan. No appeals for consideration of the fate of the national economy are permissible. There are other differences. In a socialist state where agriculturalists are being moved into cooperatives, fears for old age and desires for children as social security cannot be regarded as forces buoying an overabundant fertility. Health and other family and personal reasons for family limitation remain, together with the duty of the individual to serve the society and the responsibilities of parents for the development of children.

The most concise statement of the basic motif in the birth control propaganda of Mainland China was given in the introduction of the subject to the All China Federation of Democratic Women: [12]

> Birth control is to regulate the spacing of childbirth by means of contraceptive methods. It is aimed to protect the health of the mothers and children, so that women can be bodily strong to better serve the cause of Socialist construction and to give full attention and good education to the new generation.

The elaboration of the relationship of maternity to health considers a variety of factors that are similar to the listings of the woes of the poor in the early social surveys of Western countries. In the advice to Communist youth, it is stated that: [13]

> ...production cannot be brought to a high level at one stroke, and the life of the people cannot be improved

> speedily on a large scale. During the course of the past several years, the State has paid great attention to the founding of undertakings to look after the welfare of the children and to take care of the health of the women and infants. But this has not completely solved the difficulties encountered by the parents. In some cases, the children are not properly developed in embryo due to the ill-health of their mothers, and are born unhealthy or dead. In some cases, because of the bad financial condition and lack of energy of their parents, some children are not nurtured properly. It is particularly true with the young couples who are still in the course of growing up. They need time to learn and their financial capacity is far from sound. To them, the birth of too many children would mean great hardship.

Positive elements predominate in the health arguments, despite the use of tales of over-frequent childbearing, fatigued mothers, stillborn infants, and sickly children. Health is not for its own sake but to permit the mothers to continue their studies or to work for the realization of the new order. Moreover: [14]

> Socialist new morality not only demands of us arduous labor to serve, directly or indirectly, the cause of Socialist construction but imposes upon us the responsibility to educate the children...a responsibility every family must fulfill. It is just because of their sense of responsibility toward their children and the State that people need to adequately control the spacing of childbirth, so that they may find enough energy to nurture their children while they themselves can keep fit, thus to better serve the cause of Socialist construction.
>
> There are, of course, people who, craving for a life of ease, feel reluctant to shoulder the responsibility of rearing children. Such individuals should be educated on Socialist new morality, so as to make them realize that to nurture children is a responsibility of the parents and also one which a citizen has toward the State.

In the attempt to separate birth control from Neo-Malthusianism, great emphasis is placed on the fact that birth control is scientific, whereas anything pertaining to Malthus is propaganda. Again and again the Chinese writers quote from Lenin's "The working class and the new Malthusian theory" to the effect that "publicity of medical knowledge and protection of the basic citizenship rights of men and women in a democracy are wholly different from the new Malthusian theory of society." [15]

In the statements on birth control in the party journals, major emphasis is placed on the individual nature of the decision concerning limitation practices. It is the duty of the state, and particularly the medical doctors and the health services, to give information, advice, and guidance to those seeking it. In the writing of the leaders and the theorists, people should be educated concerning the nature and availability of limitation practices, but there should be no coercion.

There are other but less frequent motifs in the fragments of literature that are available. The happiness of married couples is mentioned occasionally. The advocacy of late marriage as a means of limiting fertility is regarded as a trick of the Malthusians; its pernicious effects are said to be obvious. A wide knowledge of birth control, it is

held, would permit student marriages, continued study, and progressively greater contributions of individuals to their society. [16]

There are also answers to the common fears of people concerning birth control. Education for contraception will prevent the tragic consequences of the resort to nonmedical abortions. It is recognized that some "demoralized and decadent survivors" of the old regime may use contraceptives in a life of laxity. This, it appears, is neither a problem for the doctors nor a blot on the banners of limited but planned parenthood. Again quoting, [17]

> Such [improper] relations are a product of the unreasonable marriage system left over from the old order and come as a result of corrosion by the bourgeois concept. Under the present society, they should be criticized and rectified from the angle of ideology....

The questions concerning the current pronatalist policies of the U.S.S.R. had to be answered. It is first pointed out that limitation facilities were provided in the early days, and that they are not banned now. The transition from government-sponsored limitation to government bonuses for maternity heroines merely reflects the natural evolution of the Socialist order. Thus Krushchev's statement, "The greater our population, the stronger and more powerful our nation will become," is quoted with approval. [18]

The Question of Means

The reduction of fertility can proceed through a variety of means. Institutions or adjustments that keep major classes of a population celibate obviously reduce the proportionate childbearing of the total population. Late age at marriage and deterrents to, or taboos on, remarriage reduce the years of childbearing and so reduce total fertility. Severe malnutrition, debilitating disease, and other factors may lessen rates of conception and decrease the proportion of conceptions carried through to the delivery of a viable infant. Planned actions of individuals may permit coitus without conception, eliminate the foetus prior to independent viability, or destroy the newly born. Many of the factors in the cultural milieu, the social institutions, and the levels of physiological functioning are subject to governmental manipulation and hence may be parts of population policies; but they are not included in the practices referred to as "birth control." That term is limited to the deliberate actions of individuals, those actions having as a consequence the reduction in the numbers of births.

The term "birth control" itself has no internationally accepted meaning other than that implicit in the words themselves. In many cultures it is a generic term that includes contraception (the prevention of conception) and abortion (the elimination of the product of conception). It may or may not include that gamut of practices whose consequence is the death of the infant at or soon after birth. These practices include direct infanticide; exposure, desertion, or other action where death is probable but not inevitable; gross neglect in the period soon after birth; and a generally lessened level of care so that survival becomes less probable.

In Mainland China the problems of terminology and propriety are alike great. Again and again the reference phrase is "birth control and contraception" rather than either used alone. [19] The Chinese language

permits a distinction between birth control as a generic term including contraception, abortion, and sterilization, and contraception as the prevention of conception. As in Japan, however, the distinctions tend to be ones of means without sharp ethical or religious connotations. And, again as in Japan, common usage is likely to involve a generic and quite nonspecific interpretation.

The discussions of birth control in the party journals and the press are so written that the uninitiated reader is likely to make a facile identification of birth control with contraception. The discussions of birth control as a contribution of modern science refer specifically to contraception. [20] The advice to Communist youth on birth control includes all the standard techniques of modern contraception. [21] Abortion is cited as a harmful practice, a carry-over from the old regime, an evil that will be eradicated as medical doctors with their knowledge of scientific means of contraception replace the untrained and uneducated operators in the field. There is little consideration of infanticide or infant neglect.

Questions as to the nuances in the statements with reference to the means of birth limitation are critical. Japan alone among all the countries of Asia has achieved substantial reductions in the fertility of her peasant population. The major means was induced abortion which had been made available through laws that expressly disapproved its use for purposes other than the preservation of the health of mothers and children and the prevention of the birth of hereditary defectives. Government activities in Japan emphasized contraception, and in recent years contraception, abortion, and sterilization have spread together as alternative or sequential means of birth limitation. This, the only success story in the reduction of the fertility of an Asian population, is well known to the political and public health leaders in Peking who will make the critical decisions as to policy in Mainland China.

The precedent for the legalization of abortions in China lies not in Japan but in the Soviet Union. Lenin himself is the authority for the orthodoxy of birth control in the early stages of the socialist state, and he made no distinction of expediency or morality between contraception and abortion. His classic statement on the subject appeared in Pravda, on June 16, 1913. It has been reproduced in the Chinese editions of the Communist classics and is cited again and again in contexts which seem to refer only to contraception. The statement follows: [22]

> [Our objection to Neo-Malthusianism]...does not in any way interfere with our demanding absolute abolition of all laws which prosecute abortion, or the dissemination of medical works on safeguarding measures, etc. These laws are sheer hypocrisy on the part of the ruling classes. These laws do not cure the ailments of capitalism, but convert them into particularly malignant, particularly serious ones for the oppressed masses. Freedom of medical propaganda and the safeguarding of the elementary democratic rights of the citizen or citizeness is one thing; the social teaching of Neo-Malthusianism is another thing....

It seems obvious to those who have studied recent developments in Japan that the oblique references to abortion in the Communist literature cannot be taken to mean the repudiation of legalized abortion as a supplement to contraceptive practice and sterilization. In Communist China, as in Japan, many of the doctors, the administrative leaders, and

the social scientists who might write of abortion are Western trained. All are quite cognizant of the concept of abortion as the murder of the unborn and a barbaric practice.

The regulations of the Ministry of Health with reference to abortion are cast in medical and health terms, though with references to the requirements of work and study. As early as 1954 abortion was permitted "...where continued pregnancy is considered medically undesirable, where the spacing of children is already too close, and where a mother with her baby only four months old has become pregnant again and experiences difficulties in breast feeding." [23] At this time, the performance of the operation required the joint application of husband and wife, medical certification, and the approval of the party organization to which the couple belonged. The removal of these latter provisions for certification of need would make the legal situation in Mainland China quite comparable to that in Japan after the spring of 1952 when a similar requirement for certification was removed from the law. It is highly significant, therefore, that when Vice-Minister of Health Fu Lien-chang was questioned by a China Youth correspondent, he stated that it was necessary to ease the restrictions on induced abortions and expressed the hope that "health agencies and medical personnel in all areas will consider the requests and the difficulties of those who apply, and appropriately ease the restrictions when deliberating approval for induced abortions." [24] The Vice-Minister added that his remarks should not be construed as approval of abortion under all circumstances, and that contraception was "the best way of birth control."

The interplay of the familial values of the old society and the economic imperatives of the new emerge in clear focus in the discussions of sterilization and its role in the reduction of family size. Initially sterilization was repudiated as inconsistent with the culture of China; it was argued that Chinese with their love of children and their veneration of family continuity would never accept the permanent elimination of the possibility of having children. Then sterilization began to be mentioned as a means of contraception whose unique advantage was its permanence. Finally there was advocacy of sterilization as the most feasible means of limiting fertility. Sterilization of the male requires a single simple operation. It thus eliminates the continuing burdens on medical personnel implicit in a widespread resort to abortions. Moreover, it solves the serious problem of a use of sparse imported materials for other than industrial purposes which is implicit in a nationwide use of contraceptives. It is also held that sterilizations performed by modern techniques would lessen the pressures placed on hospitals and health services by the high rates of childbearing that now exist.

The limitations placed on sterilization operations by the Ministry of Health are being reduced gradually, although they remain substantial. Sterilization was restricted initially to those having more than six children, then to those having four or more. Regardless of the number of children, though, the operation is limited to families in which the woman is over 30 years of age, in bad health, economically poor, and actively engaged in study. [25]

Implementation

The preparations of theoretical positions and the issuance of laws and regulations are intellectual activities that can be pursued at a distance from the realities of life and death throughout the vast areas of the country. As has been noted earlier, the verbal basis for population pol-

icy in Communist China achieved a rather high level of sophistication. The discussions of the acceptability of family limitation and of the means of achieving it, however, are so naive as to suggest that those demographers and public health doctors who were concerned with the problem in the last quarter century of the Nationalist regime are not influential in the councils of the Communists. In the spring of 1955 deputies of the National People's Congress who made inspection trips to the villages discovered that rural women did not know of contraception but did think that they had too many children. The conclusion from this was simple; all that was needed to produce major reductions in fertility was the spread of knowledge on modern contraception and the provision of supplies. [26]

The problem of means is receiving serious attention; the Minister of Health is reported to be collecting the sacred formulae of the herbalists as a part of research on formulae for contraceptives. The reports and the discussions are curious combinations of modern science and ancient lore. The following formula of advance-herbalist Yeh Hsi-chun, Deputy of the National People's Congress, was presented seriously: [27]

> Fresh tadpoles coming out in the spring should be washed clean in cold well water, and swallowed whole three or four days after menstruation. If a woman swallows fourteen live tadpoles on the first day and ten more on the following day, she will not conceive for five years. If contraception is still required after that, she can repeat the formula twice, and be forever sterile.... This formula is good in that it is effective, safe, and not expensive. The defect is that it can be used only in the spring.

The action program of the government has lagged considerably behind its stated position. In July of 1954 the Minister of Health submitted regulations concerning birth control to the Government Administrative Council for approval, but reports in the following months indicate that there were delays in action programs. In 1955 the National People's Congress forwarded a proposal for intensive effort to the Minister of Health. In June, 1956, it was announced that a report on birth control had been issued. Then on June 19, Li Te-ch'uan, the Minister of Health, reported directly on her delinquencies to the National People's Congress: [28]

> We have failed to adequately popularize birth control which may be beneficial to the health of mothers and children, to the education program for children, and to the prosperity of our nation. From now on, we must develop our work concerning publicity and education and strengthen our work of providing technical leaders.

Various activities seem to have been undertaken in the period from 1954 to early 1956, however inadequate they may have been. It was reported that contraceptive supplies were on sale at the stores of the government-managed China Medical Company. Educational activities were reported as beginning, the party groups and the cooperative organizations being the channels of communication.

Suspicion that the magnitude of the campaign was limited was implicit in Li Te-ch'uan's statement to the National People's Congress on June 19. On August 14, a Radio Peking broadcast carried the announcement that on August 6 the Minister of Health had directed all health offices to push a campaign to spread information about birth control techniques. The campaign will involve the use of publicity posters, spe-

cial provisions for a wide distribution of supplies, and an educational campaign that will move from doctors through women's organizations, labor groups, and associations of teachers.

The Broader Framework

Viewed in the broader perspective of total population policy, the crusade for family limitation appears peripheral to the main goals of the Communists. Industrialization is regarded as the major solution to problems of population and poverty, but the extension of land cultivation and food production is an essential part of the economic developments now in process or contemplated. A glance at the map on the front cover indicates that the pattern of population distribution indicated by the Communist report of 1953-1954 is the same as that pictured on the front cover of the Index for January, 1948, on the basis of the population figures of the Nationalist government for 1947. The eastern central provinces have very high densities; the northern and western peripheral areas are sparsely settled. The obvious policy implications have been drawn. The densely settled provinces should be sources for the manpower needed to develop the economy and insure the strategic security of the border areas. The Economic Planning Commission has been assigned the task of moving millions of people to resettlement projects that extend from Sinkiang around to the far north. [29]

There are also tremendous drives behind some of the social campaigns. The Marriage Law of 1950 and the subsequent activities designed to eliminate the feudal aspects of family relations are direct assaults on the family system and the ancient role of women. [30] In so far as they penetrate the populations in the rural areas they will transform the bases for family life and reproduction from unquestioned acceptance of the traditional ways to rational striving for individual survival and advancement in the service of the state and its ideals.

It remains to be seen whether the assault on high fertility will achieve a momentum comparable to that of the development and reform programs whose ideological positions are centered firmly in Communist thinking and Chinese national aspirations. It should be noted, furthermore, that genuinely intensive drives for the reduction of births would involve critical choices in the use of sparse personnel and resources. Doctors, other health personnel, and health facilities are too few for the health programs now in process. Work in family planning would have to compete with work in the control of tuberculosis, malaria, and the infectious diseases. If the difficulties involved in population increase were less great, there would have to be considerable skepticism as to whether the Communist leaders would choose to slow the speed of their industrialization and to lessen the intensity of their health campaigns in order to achieve substantial reductions in fertility. Given the present situation, and the realization on the part of the central government of that situation, rational considerations would indicate that priority be given to the reduction of fertility. Perhaps something as to the answer may be giver in the pronouncements from the party congress now in session in Peking.

The emphasis in the previous discussions has been placed on the question as to whether or not Communist China would wage a really intensive and adequately supported campaign to reduce fertility through all classes of the population, and particularly in the rural areas. If such a campaign should be waged, there is the further question of its effectiveness. There is no historical precedent for the answer to this ques-

tion, for no country has waged such a campaign at the beginning of its drive for economic and social transformation. The influence of the legalization of abortions in the Soviet Union at an earlier period was largely an urban phenomenon; Japan's precipitant drop in fertility came after a century of forced economic development, and it came after national fertility had been declining slowly for perhaps three-quarters of a century.

If an intensive campaign for family limitation had come within the context of the traditional rural society, all the experience of China itself and of other countries in and outside Asia would have indicated a high degree of skepticism as to the possibility either of swift changes in family values or of a rapid acceptance of rational planning of family size. The situation today is not so predictable. Mainland China has a society in revolution. The new order combines the police state and the terror with a driving ideology that is at once political, economic, and social. Vast physical dislocations are occurring alongside changes in the organization of agriculture, redefinitions of the role of women, and major assaults on the Confucian relationships. For some eight years now youth have been subjected to the activities, the indoctrinations, and the controls of a Communist regime. The party organization and its correlated group associations provide channels for contact and influence at the family level even in the remote villages. If the drive to reduce fertility should be intensive and conformity to a small family pattern should be made an objective manifestation of party orthodoxy, there could be powerful pressures on women to avoid additional pregnancies or, if they occurred, to terminate them in abortion.

The future course of the population of Mainland China has become even more of an enigma than its present size and rates of growth. It is possible to discuss the limits within which the future course of that population must lie if one accepts the initial assumption that the Communist state maintains its political control and succeeds in achieving a rate of economic advance somewhat more rapid than its rate of population growth. Given the continuation of health activities in the modern setting, it is not conceivable to the student of population that birth rates could be dropped to the relatively lower levels of the death rates except over a considerable period of time. There are high probabilities that health campaigns to reduce deaths will achieve far greater initial success than campaigns to reduce births, and hence that rates of population growth will increase. This conclusion would remain, whatever the intensity of the present campaigns or of those that may be initiated in the near future. In other words, in the absence of economic collapse, the population will grow much larger than it is at present. The question concerns the amount of the growth, not the fact of growth. If economic development continues as assumed, birth rates will begin to decline in the industrializing areas and among the more educated groups of the population, but that decline will be slow. In the modern world, an increase of one to two per cent per year is not a high rate of population growth. The actual rate may go above three per cent in Mainland China, as it has in less populous countries elsewhere. A many-fold increase in total population is implicit in the Chinese economic-demographic situation — if the economy can support the population that it generates.

If the situation of Mainland China is assessed in realistic terms, both the demographic and the economic future are variables, and they are highly interrelated. Success in curbing the rate of population growth implicit in the modernization of the society and economy may be the critical factor in the success or failure of the drive for economic development. Whatever the achieved results of the educational campaign now

ordered by the Minister of Health, it is probable that there will be firmer and more comprehensive campaigns for reducing family size in future years.

Irene B. Taeuber.

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A NOTE ON THE POPULATION STATISTICS OF COMMUNIST CHINA

On July 1, 1950, the Hsin Hua News Agency released a report of the Liberation Army Headquarters on the four years of Civil War. The total population was given as 492.5 million, a figure little different from that of 461.0 million presented for the same area in the Nationalist compilation of 1947. In 1952 the State Statistics Administration of the People's Republic of China examined the administrative reports from local areas and reported the population at the end of 1951 as 556.6 million, excluding Taiwan. The Ministry of the Interior made another examination of local reports as of the end of 1952 and found the population to be 567.7 million, again excluding Taiwan. Population figures published in the "Atlas of the People's Republic of China" as of the end of 1953 indicated a population of 543.5 million for the Mainland. The time reference of these 1953 figures cannot have been later than the summer of 1953.

As elections were planned and economic projects developed, the needs for a registration of voters and a national inventory of the people alike indicated the desirability of a census. Directives were issued early in April, 1953, that a census should be taken as of June 30 of that same year. The time table required that provincial population figures be available by November. In fact, there was an announcement at the end of the year 1953 that the census was 29 per cent completed. In March of 1954 it was reported that the census had been completed in 30 per cent of the country. At that time the procedures that had been worked out in careful detail were "simplified" and census organizations were ordered to complete the survey quickly. The derelict groups seem to have done so, census registration and local elections being carried out together in many areas. By June of 1954 the enumerations and tabulations had been completed so that the Deputy Prime Minister could announce the results

to the government. On November 1, 1954, the Statistics Bureau made its official report. The total population of the Mainland was 582.6 million — over 100 million more than the Nationalist figure of 1947, but only 15 million more than the Communist figure of 1952.

The essential comparisons are those between the total and the provincial populations in the last precensal estimates and in the census itself. The precensal figure for the total population was 543.5 million, while the census figure was 582.6 million. There are major differences between either of the new series of provincial totals and the Nationalist figures for 1947, but there is a close similarity in the provincial distributions of the two series referring to the year 1953. While these series have a common reference date, the periods of compilation and collection were such that they should be independent of each other. The estimates refer to no specific time period, but it may be presumed that they were the estimates which were current at the time when data were being compiled for the Atlas in which the figures were published. Since the Atlas appeared in December, 1953, the figures cannot refer to a period later than early 1953. The census figures refer specifically to June 30, 1953, but they were collected in major part in the early months of 1954. The occurrence of major similarities in provincial distributions would not be expected in China, for this is a population never before subjected to a comprehensive count.

There are three possible explanations for concurrence in the results of the provincial estimates as of 1953 and the census-registration of 1953-1954: (1) The two series are independent. If so, one would validate the other and thus support the conclusion that by 1953 to 1954 Mainland China had achieved both a comprehensive and relatively accurate system of population registers and an approximately complete census. (2) The census figures are in fact reports of previous series, with adjustments that account for presumed growth. In view of the multiplicity of the reports on procedures and results in local publications, this seems highly unlikely. In other words, there was a census apparatus, and activities were widespread. (3) Census counts and precensal reports are somehow related, probably at the local levels.

The space available here does not permit detailed description of the census procedures or analysis of the various series of provincial populations. The salient facts can be noted briefly. The local census workers were given estimates of population and of household composition that had been prepared on the basis of administrative and political records and control lists. The records of government that might have been used in the compilation of the estimates are of several types. Household registrations are being reorganized; apparently they are to become current registers for population, labor force, vital events, and migration. Migration itself is controlled by a system of certificates of departure; these are secured from the administration in the area of origin and surrendered to that in the area of destination. There is also police registration, and there is registration for the formation and control of agricultural cooperatives. The establishment of vital-statistics reporting is being stressed, though this may function through the household registers. There is no knowledge as to the type or degree of coordination in these various record systems at local or higher levels.

The relations between the personnel of the census organizations and those of the record organizations may have been fairly direct at the local levels, if indeed they were not one and the same. As mentioned earlier, census personnel were told the population and household composition expected in the area to be covered. Tabulations of census re-

sults were made locally and transmitted to higher levels of government; presumably there were successive summations until the national totals were secured. It would seem probable that local census enumerations or registrations which agreed with the figures given at the outset to the census personnel would be assumed to be correct; that, contrariwise, divergent results would be assumed to be in error and either verified or adjusted. This checking of census figures against the estimated figures may well have assumed massive proportions in the last few months when the census was being completed swiftly along with the registration of voters.

The possible interrelations between the census-registration and the record systems permit a rational explanation of the various figures available for the years from 1950 to 1954. The fact that the results of the counting and reporting procedures that occurred between June of 1953 and June of 1954 are not a census in the technical definition of the term does not necessarily discredit the figure for the total population obtained in the process.

It is obvious that the results of the census-registration of 1953-1954 cannot be used as an independent basis for the assessment of contemporary and historical data concerning the size and distribution of the population of Mainland China. The census-registration itself seems to be part of a developing record and reporting apparatus that is yielding figures on births, deaths, and migrations. The analytical task becomes more rather than less important. It also becomes more complex as elements of modern statistical procedures are grafted with varying degrees of success on procedures that are quite familiar to all those who have struggled with China's statistics in the past.

Irene B. Taeuber.

Leo A. Orleans.

Note on Sources: The detailed plans and procedures for the census-registration of 1953-1954 were described by S. Krotevich, consultant to the government of the People's Republic of China on the census, in his article, "Vsekitayskaya perepis' naseleniya 1953 g." [All China census of population, 1953], in Vestnik Statistiki, No. 5, for September-October, 1955. Summary chronology of the census events, together with references to sources, is given in the article on "The census results," in China News Analysis, No. 61, November 26, 1954. The 1953 estimates were published in the Chung-hua Jen-min Kung-ho-kuo Feng-sheng Ti-t'u [Atlas of the People's Republic of China], Shanghai, December, 1953. Other references to the Chinese sources are included in the bibliography to the preceding note on "Population policies in Communist China," pp. 273 and 274.

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The editors acknowledge the generous cooperation of the staff of the New York Public Library, and especially that of the Economics Division, in making the numerous excellent facilities of the Library available to them. The coverage of the official publications of national governments is assisted materially by the cooperation of the Office of the Coordinator of International Statistics, Bureau of the Census.

The basis of the subject classification in this bibliography was described in the January 1955 issue of Population Index, pages 21 to 27. Regularly recurring compilations of official statistics that are listed in the bibliographies of the United Nations Demographic Yearbook are not normally covered here. English translations of titles and abstracts have been made by the editors. Titles contributed by individuals other than the editors are acknowledged by placing the name of the contributor in brackets at the end of the entry. If a translation or annotation is taken from a secondary source, that source is also cited in brackets. The titles of items not seen by the editors are marked with the symbol .

A complete list of the sources used in the preparation of this bibliography will appear with the cumulative index at the end of the year. The following abbreviations are used for the bibliographical sources quoted in the annotations of this issue:

B.A.D.	- Bulletin Analytique de Documentation Politique, Economique et Sociale Contemporaine. (France. Fondation National des Sciences Politiques.)
B.A.P.	- Bibliographie Analytique. Philosophie. (France. Ministère de l'Education Nationale.)
C.G.P.	- Current Geographical Publications. (American Geographical Society.)
E.A.N.	- Economic Abstracts. (Nijhoff.)
E.R.	- Eugenics Review.
I.A.S.I., M.L.P.R.	- Inter American Statistical Institute, Monthly List of Publications Received.
I.L.R.	- International Labour Review. (International Labour Organization.)
I.S.S.B.	- International Social Science Bulletin. (U.N.E.S.C.O.)
P.A.	- Psychological Abstracts.
P.A.I.S.	- Public Affairs Information Service. Bulletin.
P.C.L.	- Planning: Current Literature. (U.S. Department of Commerce.)
S.A.	- Sociological Abstracts.
T.A.	- Tropical Abstracts. (Netherlands Royal Tropical Institute.)

The further development of the bibliography as a contribution to international demographic research requires the cooperation of scholars throughout the world. The editors welcome exchange relationships with institutions, reprints of research contributions, and citations to fugitive studies or those in non-Western languages.

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"The conference was held at Abidjan in September-October 1954 and was attended by specialists on the social and cultural implications of industrialization and urbanization in Africa.... The document under review surveys the work of the conference and contains a summary report of the discussions prepared by Professor Daryll Forde, who has also been instructed to prepare a detailed publication on the conference." [I.S.S.B. 7(3)]

4036 United Nations Educational, Scientific, and Cultural Organization.
Terminology. Six trial definitions: conurbation, elite, migration, progress, slum, unemployment. International Social Science Bulletin (Paris) 7(3):472-483. 1955.
Terminology. Six trial definitions: authority, collectivism, decentralization, fertility, neighbourhood, technology. Ibid. 7(4):665-676. 1955.
"This new section, which the Editor hopes to continue as a regular feature of the International Social Science Bulletin, is devoted to the efforts now being made to define the terminology used in the social sciences.... The draft definitions...have been approved, respectively, by committees created by the British Sociological Association, the Fondation Nationale des Sciences Politiques in Paris, and the Centre Interuniversitaire de Recherches Sociologiques in Brussels. For each of the chosen six terms, trial definitions are available in both English and French, and these are given...in the original for purposes of comparison." [I.S.S.B 7(3)]

4037 Van Klaveren, J. J.
[Population and occupation.] Población y occupación. Económica (Buenos Aires), Oct.-Dec., 1954. Pp. 229-242. With German, English, French, and Italian summaries.
Opinion of the great economists on the problem of the relation between demography and full employment; social and economic aspects of this problem. [B.A.D. 11(1)]

4038 Vogelnik, Dolfe.
[Some aspects of demographic research in Yugoslavia.] Quelques aspects des recherches démographiques en Yougoslavie. Le Démographe, No. 3, April, 1956. Pp. 40-42.

4039 Weinstein, Eugene.
Comment on "Demographic transition reexamined." American Sociological Review 21(3):369-371. June, 1956. [Reply to comment cited in 22:Title 1025.]
Reply to Weinstein. By Leighton Van Nort and Bertram P. Karon. Ibid.:371-373.

4040 Wrong, Dennis H.
Population. Random House Studies in

Sociology, 15. New York, Random House, 1956. 128 pp.

An introduction to the data and theoretical basis of demography, covering the field of the discipline, world population growth and distribution, mortality, fertility, migration, and the Malthusian problem. A chapter on differential fertility summarizes recent research findings.

[See also Titles 4109, 4151, 4157, 4159, 4160, 4178, 4183, 4204, 4264, 4316, 4325, 4337, 4354, 4421, 4426]

B. REGIONAL POPULATION STUDIES

Historical Studies

4041 Anciaux, Léon.
[Belgian participation in the colonization of the East Indies by the Dutch.] La participation des Belges à l'oeuvre coloniale des Hollandais aux Indes orientales. Académie Royale des Sciences Coloniales, Classe des Sciences Morales et Politiques, Mémoires. Nouvelle Série, Tome 1, Fascicule 2. Brussels, 1955. 159 pp.°

4042 Andrews, J. H.
Some statistical maps of Defoe's England. Geographical Studies 3(1):33-45. 1956.°

4043 Baur, J. E.
The Welsh in Patagonia: an example of nationalistic migration. The Hispanic American Historical Review 34(4):468-492. Nov., 1954.°

4044 Boyd, W. D.
James Redpath and American Negro colonization in Haiti, 1860-1862. The Americas 12(2):169-182. Oct., 1955.°

4045 Eberhard, Wolfram.
Data on the structure of the Chinese city in the pre-industrial period. Economic Development and Cultural Change 4(3):253-268. April, 1956.

An attempt to apply social science methods to historical studies to test the hypothesis that the inhibition of industrial development in China in the Sung period "had some relation to the structure of the Chinese city." Data reviewed include evidences of the size and sources of population growth in early Chinese cities.

4046 Enkola, K.
[Observations relating to cultural geography and the development of the population of southwest Finland in the years 1840-1940.] Kulturgeographische Betrachtungen über die Bevölkerungsentwicklung Südwestfinnlands in den Jahren 1840-1940. Turku, Geographisches Institut der Universität, 1953. 114 pp.°

4047 Fabri, Joseph.
[Belgians in Guatemala, 1840-1845.] Les Belges au Guatemala, 1840-1845. Académie Royale des Sciences Coloniales, Classe des Sciences Morales et Politiques, Mémoires. Nouvelle Série, Tome 2, Fascicule 1. Brussels, 1955. 266 pp.°

4048 Fleury, Michel, and Henry, Louis.
[From parish registers to the history of population: handbook for examination and utilization of the old registration lists.] Des registres paroissiaux à l'histoire de la population: manuel de dépouillement et d'exploitation de l'état civil ancien. Editions de l'Institut National d'Etudes Démographiques, Publications hors Collection, 2. Paris, 1956. 84 pp.

Contains description of the form and contents of the parish registers of the 17th, 18th, and 19th centuries. Explanation of data available and a guide to its classification and analysis, with particular attention to the reconstitution of families. A summary presentation of the volume appears in Population (Paris) 11(1):142-144. Jan.-March, 1956.

4049 Fulton, J. F.
Medicine, warfare, and history. Pp. 427-441 in: Smithsonian Institution. Annual report, 1954. Washington, 1955. Reprinted from the Journal of the American Medical Association, Vol. 153, Oct. 3, 1953.°

4050 Graham, I. C. C.
Scottish emigration to North America, 1707-1783. Ann Arbor, University Microfilms Publication 13,484. Microfilm copy of typescript: iv, 238 pp. Abstracted in: Dissertation Abstracts 15(11):2180. 1955.°

4051 Hörl, Irmgard.
[The composition and structure of the oldest Munich population, from 1158, the year of the city's founding, to 1403, the year of the revision of the municipal constitution.] Die Zusammensetzung und Schichtung der ältesten Münchner Bevölkerung, von 1158, dem Gründungsjahr der Stadt, bis 1403, dem Jahr der Neuordnung der Stadtverfassung. Munich, 1952. 131 pp., typescript.°

4052 Oates, David.
The Tripolitanian Gebel: settlement of

the Roman period around Gasr ed-Dauun. British School at Rome, Papers (London), Vol. 21 (N.S., Vol. 8), 1953. Pp. 81-117.°

Ancient settlement in the Tripolitanian Gebel, II: the Berber period. Ibid., Vol. 22 (N.S., Vol. 9), 1954. Pp. 91-117.°

4053 Ramm, Heinz.

[On the older settlement history of Holstein; methodological considerations.] Zur älteren Besiedlungsgeschichte Holsteins; methodische Überlegungen. Archaeologia Geographica (Hamburg), 4:67-72. Dec., 1955.°

4054 Torres-Balba, Leopoldo.

[The areal extent and demography of the cities of Islamic Spain.] Extension y demografia de las ciudades hispano-musulmanas. Studia Islamica (Paris), 1955. Pp. 35-59.

A re-estimation of the population of the cities of Islamic Spain about the tenth century. [Population 11(1)]

4055 Winter, Eduard.

[The Czech and Slovakian migration to Germany in the seventeenth and eighteenth centuries.] Die tschechische und slowakische Emigration in Deutschland im 17. und 18. Jahrhundert. Beiträge zur Geschichte der hussitischen Tradition. Deutsche Akademie der Wissenschaften zu Berlin, Veröffentlichungen des Instituts für Slawistik, Nr. 7. Berlin, Akademie-Verlag, 1955. VII, 568 pp.°

[See also Titles 4009, 4011, 4059, 4060, 4066, 4068, 4080, 4081, 4117, 4126, 4134, 4136, 4137, 4141, 4211, 4264, 4314, 4315]

Regional Demography

4056 Bezon, A.

[Comparative demographic sampling inquiry in the Kabré territory (Togo) 1932-1954.] Sondage démographique comparatif en pays kabré (Togo) 1932-1954. Médecine Tropicale: Revue du Corps de Santé Colonial (Marseilles) 15(4):437-455. July-Aug., 1955.°

4057 Camiller, A. P.

[The ecological crisis in Malta.] La crise écologique de Malte. Concours Médical (Paris) 77(51):4825-4828. Dec. 17, 1955.°

4058 Chen Shao-Hsing.

Population growth and social change in Taiwan. Bulletin of the Department of Archaeology and Anthropology (Tapei, National Taiwan University), No. 5, May, 1955. Pp. 76-103. In English and Chinese. [The first of two studies. Discusses trends in numbers and ethnic composition, 1896-1943, and social and economic characteristics.]

Population change in Taiwan. Ibid., No. 6, Nov., 1955. Pp. 86-119. [The second of the two studies. Discusses trends in birth and death rates, causes of death, age-specific death rates, neonatal mortality, expectation of life, sex ratio, occupational distribution, types of population policy.]

4059 Daric, Jean.

[Demographic development in Spain.] Evolution démographique en Espagne. Population (Paris) 11(1):83-104. Jan.-March, 1956.

Statistical analysis, mainly 1861-1954, covering population size, geographical distribution and density, demographic characteristics, nuptiality, natality, fertility, mortality, natural increase, migration. Projections of population size to 1980. Economic and social characteristics in 1950.

4060 France. Institut National de la Statistique et des Etudes Economiques.

[The demography of the French Antilles. Martinique and Guadeloupe.] Démographie des Antilles françaises. Martinique et Guadeloupe. Paris, 1955. 89 pp., processed.

A report, prepared for the Haut Comité de la Population, on population movements in Martinique and Guadeloupe since 1664. Information on habitat, education, natural and industrial resources, and differences in levels of living is included. Limiting of births, increased employment, better distribution of total income, and emigration of excess population are recommended. [Population 11(1)]

4061 Frater, A. S.

Depopulation in the New Hebrides. Transactions and Proceedings of the Fiji Society of Science and Industry, Vol. 3. No. 1, 1945; No. 2, 1946; No. 3, 1947. Issued Dec., 1953. Pp. 166-185.°

4062 Gil, B.

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Growth rates as affected by natural increase and net migration in the various

types of rural settlement, 1948-1954. Growth prospects to 1973 and corollaries for immigration policy.

4063 Gini, Corrado.
[The population problem of Asia.] Il problema demografico dell'Asia. Genus (Rome) 10(1-4):168-174. 1953-54.
Summary of a conference held by the Istituto Italiano per il Medio ed Estremo Oriente, March, 1952. English translation appeared in East and West, Vol. 4, No. 3. Oct., 1953.

4064 Gonçalves, Antônio C.
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4065 H[enry], L[ouis].
[The demographic situation in Martinique and Guadeloupe.] Situation démographique de la Martinique et de la Guadeloupe. Notes et Documents. Population 11(1):157-158. Jan.-March, 1956.
Report on the census of 1954 and mortality rates of 1952-53.

4066 Leister, Ingeborg.
[Causes and consequences of the depopulation of Ireland from 1841-1951.] Ursachen und Auswirkungen der Entvölkerung von Eire zwischen 1841 und 1951. Erdkunde (Bonn) 10(1):54-68. Jan., 1956.°

4067 Marshall, Douglas G.
Wisconsin's population — changes and prospects. University of Wisconsin, Agricultural Experiment Station, Research Bulletin 194. Madison, Feb., 1956. 56 pp.
"This bulletin is a contribution from the Wisconsin Agricultural Experiment Station as a collaborator under the North Central Region cooperative research project N.C. 18 entitled 'Population Dynamics in the North Central Region and Related Rural Social and Economic Problems.'" Chapters cover data, 1900-1955, on distribution, changes in fertility and mortality, the movement of people, age and sex composition, nativity and race, selected characteristics on education, occupation, and housing, human resources in agriculture, prospects.

4068 Mortara, Giorgio.
[The population of Brazil and its development in the last 125 years.] A população do Brasil e seu desenvolvimento nos 125 ultimos anos. Industriários (Rio de Janeiro), Oct., 1955. Pp. 32-38.
Geographical and urban-rural distribution, characteristics, and prospects of the Brazilian population. [B.A.D. 11(1)]

4069 Shaul, J. R.
Results of the demographic sample survey of the African population of Northern Rhodesia. Central African Journal of Medicine (Salisbury) 1(6):307-311. Nov., 1955.

4070 Stolper, Wolfgang F.
Population movements and labor force in the SBZ. Communist Bloc Program, East Germany Project, C/56-7. Cambridge, Center for International Studies, Massachusetts Institute of Technology, 1956. 73 pp., processed.°

4071 Vibert, Jean.
[The population of Tunisia. Overall development.] La population de la Tunisie. L'évolution globale. Bulletin Economique et Social de la Tunisie (Tunis) 105:30-36. Oct., 1955.
An analysis of the population increases, which takes into account changes in death rates, levels of living, migration, urbanization, and political and industrial considerations, as well as regional differences in these factors. The possibilities of decentralization and education are discussed. [Population 11(1)]

[See also Titles 4029, 4046, 4097, 4129, 4135, 4139, 4211]

Surveys Containing Demographic Material

4072 Balandier, Georges.
[Sociology of Black Africa today. The dynamics of social change in Central Africa.] Sociologie actuelle de l'Afrique noire. Dynamique des changements sociaux en Afrique Centrale. Bibliothèque de Sociologie Contemporaine. Paris, Presses Universitaires de France, 1955. xii, 510 pp.

4073 Bell, S.
The Ameru people of Kenya: a medical and social study. Journal of Tropical Medicine and Hygiene (London), Vol. 58, Nos. 10, 11, 12. Pp. 223-239; 249-260; 280-290. Oct., Nov., and Dec., 1955.°

4074 Chapin, Miriam.
Atlantic Canada. New York, Oxford University Press, 1956. 179 pp.
"A description of social conditions in Nova Scotia, New Brunswick, Prince Edward Island, and Newfoundland." [C.G.P. 19(4)]

4075 Emperaire, J.
[The nomads of the sea.] Les nomades de la mer. 2nd ed. Paris, Gallimard, 1955. 286 pp.
"This work constitutes a general study of the surviving Alkaluf Indians, who live in the Islands of the Magellan Archipelago.... the author makes an objective effort to isolate the reasons why these people are dying out...." [I.L.R. 73(4)]

4076 Faivre, Jean P., et al.
[New Caledonia; geography and history, economy, demography, ethnology.] La Nouvelle Calédonie; géographie et histoire, économie, démographie, ethnologie. Paris, Nouvelles Editions Latines, 1955. 311 pp.°

4077 Glacken, Clarence J.
The Great Loochoo: a study of Okinawan village life. Berkeley and Los Angeles, University of California Press, 1955. 324 pp.

4078 Hughes, A. J. B.
Kin, caste and nation among the Rhodesian Ndebele. Rhodes-Livingstone Institute, Rhodes-Livingstone Papers, No. 25. Manchester, Eng., Manchester University Press, [1956]. 86 pp.°

4079 Human Relations Area Files, Inc.
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For previous citations see 22:Title 3080.
HRAF-24. Chicago-21. Area handbook on Jammu and Kashmir State. 1956. xii, 532 pp. [Chapters include: Demography and patterns of settlement; Ethnic studies.]

4080 Kovacsics, József.
[A statistical monograph on the town of Keszthely.] Keszthely város statisztikai monográfiája. Statisztikai Szemle (Budapest) 33(11):1033-1041. Nov., 1955.
History of the city since Roman times, and of population since 1785. Age groups, social classes, cultural institutions, trade with surrounding area. [B.A.D. 11(1)]

4081 Rhode, Gotthold, Editor.
[The eastern areas of the German Reich: a pocket book.] Die Ostgebiete des deutschen Reiches: ein Taschenbuch. Published for the Johann Gottfried Herder-Forschungsrates. 2 ed. Würzburg, Holzner, 1955. xv, 288 pp.; 21 plates in pocket.
Partial contents: [The progress of German settlement.] Der Gang der deutschen Besiedlung. By W. Kuhn. [Population, 1850-1939.] Bevölkerung, 1850-1939. By E. Keyser.

4082 Robinson, J. B. Perry.
Transformation in Malaya. London, Secker, 1956. 232 pp.; 1 folded sheet map.
Contents: Conspectus; Resettlement and the Chinese community; Integration; Aborigines; Self-government.

4083 Shabad, Theodore.
China's changing map: a political and economic geography of the Chinese People's Republic. New York, F.A. Praeger, 1956. x, 295 pp.
Includes sections on the 1953 population census and on ethnic groups. Most of the book consists of a region-by-region survey of resources and development.

4084 Sheridan, Richard.
Economic development in south central Kansas, Part Ia. An economic history, 1500-1900. Lawrence, School of Business, Bureau of Business Research, University of Kansas, 1956. xiv, 288 pp.

4085 United Nations Educational, Scientific, and Cultural Organization.
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"This study is based on the work of a seminar on the status of women in South Asia, convened by the Organization of Asiatic Relations and sponsored by Unesco.... The greater part of the volume (130 pages) consists of monographs on particular aspects of the problem, written by various participants in the seminar. Full bibliographical, demographical and statistical data." [I.S.S.B. 7(2)]

4086 Williams, W. M.
Gosforth: the sociology of an English village. International Library of Sociology and Social Reconstruction. London, Routledge and Kegan Paul; Glencoe, Ill., Free Press, 1956. x, 246+ pp.
Chapters include: The family; Some aspects of the life cycle; Kinship; The social classes. Statistical appendixes. Based on field work by the author between July 1950 and February 1952 and in the summer of 1953.

C. SPATIAL DISTRIBUTION

General Spatial Distribution

4087 France. Direction de la Documentation.
[Documents on the demographic situation and population transfers in the U.S.S.R.]

Documents sur la situation démographique et les transferts de population en U.R.S.S. Notes et Etudes Documentaires, No. 2104, Nov. 24, 1955. 24 pp.

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4088 Germany. Federal Republic. Statistisches Bundesamt.

[Official register of the Gemeinde in the Federal Republic of Germany 1953.] Amtliches Gemeindeverzeichnis für die Bundesrepublik Deutschland 1953. Statistik der Bundesrepublik Deutschland, Band 108. Stuttgart and Cologne, Kohlhammer, 1954. 420 pp.; folding map; plus 12-page supplement.

4089 Harris, Marvin.

Town and country in Brazil. Columbia University Contributions to Anthropology, No. 37. New York, Columbia University Press, 1956. x, 302 pp.

Report of a field study of Minas Velhas in Bahia State, Brazil, by a U.S. anthropologist. Comparison of rural and urban society as exemplified by a small county seat (1500 population) and six surrounding rural villages comprising 1000 inhabitants. Data on spatial distribution patterns, occupation, family structure.

4090 Krenzlin, Anneliese.

[Historical and economic characteristics in settlement patterns in western East Germany with particular attention to Mecklenburg-Hither Pomerania and Saxony.] Historische und wirtschaftliche Züge im Siedlungsformenbild des westlichen Ostdeutschland unter besonderer Berücksichtigung von Mecklenburg-Vorpommern und Sachsen. Frankfurter Geographische Hefte, Vol. 27-29, 1955. 64 pp.°

4091 Larnaude, Marcel.

[The Muslim population of Algeria: its principal geographic characteristics.] La population musulmane de l'Algérie: traits principaux de sa géographie. Cahiers Nord Africaines (Paris), No. 50, Jan.-Feb., 1956. 43 pp.

4092 Lund University, Department of Geography.

Studies in rural-urban interaction. Lund Studies in Geography, Series B., Human Geography, No. 3. Lund, 1951. 36 pp.

The English summaries of four papers read at a meeting held under the direction of the Swedish Social Science Research Council, Uppsala, 1950. Contents: Umland studies and sector analysis, by Edgar Kant. Bus services, hinterlands, and the location of urban settlements in Sweden, especially in Scania, by Sven Godlund; Variability in intensity of urban fields as illustrated by birth-places, by K. E. Bergsten; Migration and the growth of center regions, by Torsten Hägerstrand. With maps and bibliographies.

4093 Melamid, Alexander.

The geographical distribution of communities in Cyprus. Geographical Review 46 (3):355-374. July, 1956.

The pattern of urban and rural communities, regionally considered. The distribution of Greek, Turkish, and Maronite population.

4094 Mironenko, V. P.

Population growth and movement within the R.S.F.S.R. between 1947 and 1955. Bulletin of the Institute for the Study of the History and Culture of the USSR (Munich), Nov., 1955. Pp. 15-18.

The increase of the population can be measured by a comparison of the number of voters in the elections to the Supreme Soviet in 1947 and 1955; migration is reflected in the creation of new electoral districts in 1955 in relation to 1947; statistics. [B.A.D. 11(1)]

4095 Mulder, G. C. A.

["Empty" Surinam.] Het "ledige" Rijksdeel Suriname. Economisch Statistische Berichten (Rotterdam) 40(2000):883-884. 1955.

Notes on the low density of the population in Surinam, the per cent increases in the population groups between 1924 and 1954, and prospects for immigration. [T.A. 10(23)]

4096 Petermanns Geographische Mitteilungen.

[China. Population and administrative structure.] China. Bevölkerung und Verwaltungsgliederung. Petermanns Geographische Mitteilungen (Gotha) 99(3):229-230. 1955.

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4097 Phillips, Coy T.

Population distribution and trends in North Carolina. The Journal of Geography 55(4):182-194. April, 1956.°

4098 Scheidl, Leopold.
[Recent contributions on the settlement geography of Japan.] Neuere Beiträge zur Siedlungsgeographie Japans. Petermanns Geographische Mitteilungen (Gotha) 99(2): 110-117. 1955.
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4099 Skibbe, Bruno.
[The change in population density in China: on some of the results of the population census of 1953.] Die Veränderung der Volksdichte in China: zu einigen Ergebnissen der Volkszählung 1953. Petermanns Geographische Mitteilungen (Gotha) 99(4): 298-302. 1955.
Includes maps showing changes in density 1936-1953.

[See also Titles 4042, 4046, 4083, 4110, 4133, 4145]

Urban Patterns

4100 Aario, Leo E.
The inner differentiation of the large cities in Finland. Turun Yliopiston Maantieteellisen Laitoksen Julkaisuja, No. 22. Turku, 1951. 67 pp.°

4101 Ahmad, Kazi S.
Urban population in Pakistan. Pakistan Geographical Review (Lahore) 10(1):1-16. 1955.

4102 American Economic Association.
Urban growth and development. [Texts of papers and discussion at one session.] Pp. 284-304 in: Papers and proceedings of the sixty-eighth annual meeting of the..., New York, December 28-30, 1955. American Economic Review, Vol. 46, No. 2, May, 1956. xiv, 652 pp.
Contents: The spread of cities, by Donald J. Bogue; Some effects of economic growth on the character of cities, by Chester Rapkin; Discussion, by Joseph L. Fisher.

4103 Angenot, L. H. J.
[Essays on the problem of building density.] Verhandelingen over het vraagstuk van de dichtheid van bebouwing. Nederlands Instituut voor Volkshuisvesting en Stedebouw Publicatie, Nr. LIX. Alphen aan de Rijn, N. Samson N.V., 1954. VI, 100 pp.
Contents: Formal consideration of building density: The need for a density measurement; Suggested density measurements [housing density, density of dwellings, building-coefficient, coverage coefficient, residential density, floorspace index, room distribution, area index, volume index]; Degree of uniformity of population distribution; Value of density calculation; Application. Economic consideration of building density: The question of development costs; The question of investment; The question of loss of arable land. City-planning aspect of building density: Use of land; Influence of building density on distances; Influence of building methods on costs. Appendixes give: Mathematical equations for the problem of optimum building density; Information on city sections.

4104 Austria. Statistisches Zentralamt.
[The development of the large cities of Europe in the first half of the 20th century.] Die Entwicklung der Grosstädte Europas in der ersten Hälfte des 20. Jahrhunderts. Statistische Nachrichten 11(3):98-100. March, 1956.
International comparisons of populations in centers of 100,000 and over and of proportions living in the metropolises.

4105 Chombart de Lauwe, P., et al.
[Paris and the Parisian agglomeration: the social spacing in a large city.] Paris et l'agglomération parisienne: l'espace social dans une grande cité. Collection: Bibliothèque de Sociologie Contemporaine, Série B: Travaux du Centre d'Etudes Sociologiques. Paris, Presses Universitaires de France, 1952. In 2 vols. XI, 262 pp.; 110 pp.°

4106 Cole, John P.
[The urban geography of Peru.] Geografía urbana del Perú. Revista del Museo Nacional (Lima) 24:50-80. 1955.

4107 Comhaire, J.
Some aspects of urbanization in the Belgian Congo. American Journal of Sociology 62(1):8-13. July, 1956.
Comparisons between the neighboring cities, Leopoldville, in the Belgian Congo, and Brazzaville, in French Equatorial Africa.

4108 France. Institut National de la Statistique et des Etudes Economiques.
[A statistical study of the Toulouse agglomeration.] Etude statistique de l'agglomération de Toulouse. Toulouse, 1953. 334 pp.

4109 Friedmann, John R. P.
The concept of a planning region. Land Economics 32(1):1-13. Feb., 1956.
The development of the metropolitan area concept as opposed to the older regional planning units. Discussion of its adaptability to resource planning.

4110 Godard, Jean.
[The modern oasis: an essay on urbanism in the Sahara.] L'oasis moderne: essai d'urbanisme saharien. Alger, Maison des Livres, 1954. 225 pp.

4111 Grebler, Leo.
Europe's reborn cities. Urban Land Institute, Technical Bulletin, No. 28. Washington, March, 1956. 104 pp.
Report on a six-month study tour of 28 cities in England, France, Germany, Netherlands, and Italy in 1954. Includes notes on densities in urban patterns.

4112 Greenwich, Conn. Planning and Zoning Commission.
The people of Greenwich. A study of population growth and characteristics as of 1950. Plan of Development Report, No. 4. Greenwich, 1956. 17 pp., processed.
"Population growth and trends, characteristics, economic characteristics, location of employment." [P.C.L. 12(13)]

4113 Harmsen, Hans.
[The increasing urbanization of West Germany.] Fortschreitende Verstädterung Westdeutschlands. Universitas (Stuttgart) Vol. 10, 1955. Pp. 403-408.
[Will the large cities of West Germany continue to grow or shrink?] Werden die Grosstädte im westdeutschen Bundesgebiet weiter wachsen oder schrumpfen? Der Aufbau (Berlin), Vol. 9, 1954. Pp. 505-507.

4114 Heeren, H. J., Editor.
The urbanisation of Djakarta. Report on a research-project sponsored by Unesco and carried out by the Institute for Economic and Social Research of the Djakarta School of Economics, University of Indonesia. Reprint from: Ekonomi dan Keuangan Indonesia, Nov., 1955. 43 pp.
Based on a house-to-house survey during January-March, 1954, in the more densely settled districts of the city. Questions on place of origin, period of migration, family composition, sex, and occupation of migrants, reason for migration, areas of settlement in the city. The migration of Chinese is separately considered. Presentation of findings in text and tables, with notes on method and questionnaire forms.

4115 Konstantinov, O. A.
[Cities of the Ukranian SSR.] Goroda Ukrainskoĭ SSR. Izvestiia Vsesoiuznogo Geograficheskogo Obshchestva (Moscow) 86(3):215-228. May-June, 1954.°

4116 Korčák, Jaromír.
[The size of towns in geographical comparison.] Velikost měst v zeměpisném srovnání. Sborník Československé Společnosti Zeměpisné (Prague) 60(4):252-261. 1955. With Russian and English summaries.

4117 Madden, Carl H.
On some indications of stability in the growth of cities in the United States. Economic Development and Cultural Change 4(3):236-252. April, 1956.
The data on the growth of cities are presented as a succession of frequency distributions by decades, 1790-1950. The study "investigates the form and parameters of these distributions and traces some of the variation that occurs among the cities within them."

4118 Pownall, L. L.
Evolution of the urban structure of New Zealand. Tijdschrift voor Economische en Sociale Geografie (Rotterdam) 47(3):63-68. March, 1956.
General perspective. Growth of Auckland, Wellington, Christchurch, and Dunedin. Evolution of a major town class. Analysis and projection of urban trends.

4119 Schindele, M.
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4120 Schwind, Martin.
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4122 Spielman, Ralph.
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"Study of the rise of cities not only in European Russia but also in the Asiatic republics which had lagged before. Statistical data on this increase, investment for housing construction." [B.A.D. 10(10)]

4124 Verešík, Ján.
[Methods of delimiting the boundaries of cities.] K metódam vymedzovania hraníc miest. Geografický Časopis 7(1-2):5-14. 1955. With Russian and French summaries.

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[See also Titles 4035, 4045, 4051, 4054, 4080, 4137, 4344, 4345, 4394, 4395, 4434, 4485]

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4129 Gourou, Pierre.
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4131 Schütt, Horst.
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4132 Troger, Ernst.
[Population geography of the Zillertal.] Bevölkerungsgeographie des Zillertales. Innsbruck, Universitätsverlag Wagner, 1954. 133 pp.

[See also Titles 4062, 4095, 4130]

D. TRENDS IN POPULATION SIZE

Past Trends

4133 Austria. Statistisches Zentralamt.
[Population trends in the smaller territorial units.] Die Bevölkerungsentwicklung in den kleineren Gebietskörperschaften. Statistische Nachrichten 11(4):146-147. April, 1956.
Comparison of data of 1869 and 1951.

4134 Austria. Statistisches Zentralamt.
[The growth of the Austrian population since the year 1869.] Das Wachstum der

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4135 Ceylon. Department of Census and Statistics.

Sinhalese population growth 1911-1946. By R. Raja Indra. Monograph, No. 7. Colombo, Govt. Press, 1955. [x], 52 pp.

"...considers, in some detail, under-enumeration at the various population censuses and under-registration of births and deaths during this 35-year period, and also suggests the correction factors to be applied to the different years."

Contents: The background; The vital statistics of Ceylon; The censuses; Inter-censal population growth; Under-registration of births and deaths between 1911 and 1946. Appendix: Mis-statement of ages at the 1921 and 1946 censuses: favoured digits; Ceylon's migration statistics; Ceylonese and Sinhalese migration; The births and deaths registration ordinance of 1895 and subsequent amendments; Under-registration of births and deaths.

4136 Colombia. Departamento Administrativo Nacional de Estadística.

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4137 Germany. Federal Republic. Rhineland-Palatinate. Landesamt.

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4138 Matlingly, Paul F.

Population trends of Missouri. The Journal of Geography 55(2):80-84. Feb., 1956.°

4139 Sharer, C. J.

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4140 United Nations. Economic Commission for Asia and the Far East.

Acceleration of population growth in ECAFE countries since the second world war. Economic Bulletin for Asia and the Far East, May, 1955. Pp. 1-12.°

4141 Yugoslavia. Serbia. Zavod za Statistiku i Evidenciju.

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[Growth of the administrative divisions of the Serbian territory 1834-1954.] Administrativno-teritorijalne promene u NR Srbiji od 1834-1954 godine. Serija: Prikazi, Sveska 13. Belgrade, 1955. 300 pp. [Historical chronicle of territorial changes and detailed tables of the successive administrative divisions. Maps.]

[See also Titles 4045, 4051, 4058, 4061, 4066, 4068, 4075, 4094, 4097, 4117, 4128, 4130, 4318]

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4142 East African Statistical Department.

Notes on new population estimates for the East African territories. Quarterly Economic and Statistical Bulletin, No. 23, March, 1954. Pp. ix-xii.°

4143 Japan. Bureau of Statistics.

[Estimation of population by age for all Japan: each year of the 1920-1940 period and the 1947-1950 period.] Data of Population Estimates, 1956-1. Tokyo, March, 1956. In Japanese. [iv], 138 pp.

Outline of the method of estimation. Estimated figures (includes detailed explanations of procedure). Tables (census data, estimates, the vital statistics used for the estimation: data for net migration change of Japanese, 1920-1940; census population by sex and age, and births and deaths by sex and age in Okinawa-ken, 1920-1943).

4144 U.S. Bureau of the Census.

Current Population Reports. Series P-25. Population estimates. Washington, 1947-.

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No. 136. Estimates of the population of the United States and components of population change: 1950 to 1956. May 21, 1956. 4 pp. [The figures in this report supersede the corresponding estimates from 1953 to date published in Series P-25, including those in Nos. 111 and 135.]

No. 137. Estimates of the population of the standard metropolitan areas of Houston, Milwaukee, St. Louis, and Washington, D.C.: January 1, 1956. May 27, 1956. 4 pp.

Nos. 138 and 140. Provisional estimates of the population of the United States: January 1, 1950, to....[to June 1, 1956 was issued

July 13. 1 p.]

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4145 Witthauer, Kurt.

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[See also Titles 4001, 4255, 4462]

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4146 Denmark. Copenhagen. Statistiske Kontor.

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4147 Fourastié, Jean.

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4148 Hébette, Fernand.

[Projections of the active population for 1965.] Perspectives de population active pour 1965. Bulletin de l'Institut de Recherches Economiques et Sociales (Louvain) 22(1):41-56. Feb., 1956.

4149 Organisation for European Economic Co-operation.

Demographic trends in Western Europe: 1951-1971. Paris, 1956. 160 pp.

"This report is the outcome of an enquiry in the O.E.E.C. countries. It includes general conclusions on the probable development of the population of the Member countries during the next twenty years, by age groups and sex, on the basis of various hypotheses as to trends in mortality, fertility and migrations. This general part, which is completed by statistical tables, is followed by a country analysis." [Publisher's announcement]

4150 Pr[essat], R[oland].

[Development of the population of France to 1970.] Evolution de la population de la France jusqu'en 1970. Population (Paris) 11(1):158-162. Jan.-March, 1956.

Presentation of tables of revised projections, 1956 to 1971. For citation of original presentation and discussion see 21: Title 4157.

4151 Somogyi, Stefano.

[Demographic forecast for Italy, 1950-1970.] Prospettive demografiche per l'Italia, 1950-1970. Difesa Sociale (Rome) 34(2):37-80. April-June, 1955.

Projections based on five different hypotheses, including a consideration of the changes which the age and sex distribution, proportions economically active, and distribution by social class undergo. [Population 11(1)]

[See also Titles 4031, 4059, 4062, 4200, 4395]

E. MORTALITY

General Mortality

4152 Balfour, Marshall C.

Some considerations regarding the permanence of recent declines in mortality of underdeveloped areas. With comment by John E. Gordon. Pp. 35-42 in: Milbank Memorial Fund. Trends and differentials in mortality. New York, 1956. 166 pp.

Consideration of the influence of socioeconomic development and of technological advances on recent mortality improvement, with reference to possible future resistances over the short and long term.

4153 Bourgeois-Pichat, Jean, and Pan, Chia-Lin.

Trends and determinants of mortality in underdeveloped areas. Pp. 11-25 in: Milbank Memorial Fund. Trends and differentials in mortality. New York, 1956. 166 pp.

Summary of recent mortality trends in selected underdeveloped areas, as indicated by three types of ratio, and of conclusions on their determinants.

4154 Demény, Pál.
[The variation of mortality in Hungary.] A halandóság alakulása magyarországon. Statisztikai Szemle (Budapest) 33(4):328-347. April, 1955.

4155 Italy. Centro di Documentazione.
[Length of life and causes of death with the rates for the past year; Italy is among the countries of low mortality levels.] Durata della vita e cause di morte; con i quozienti degli ultimi anni; l'Italia è tra i paesi a più basso livello di mortalità. Documenti di Vita Italiana (Rome) 6(53):4173-4176. April, 1956.

4156 Marks, Herbert H.
Mortality among impaired lives. Pp. 98-121 in: Milbank Memorial Fund. Trends and differentials in mortality. New York, 1956. 166 pp.
"This paper reviews the several types and sources of studies on mortality of impaired lives; the advantages and limitations of each; the kinds of impairments included; and the procedures used in evaluating the data. Findings from a number of studies are briefly summarized in order to illustrate these points."

4157 Milbank Memorial Fund.
Trends and differentials in mortality. Papers presented at the 1955 annual conference of the Milbank Memorial Fund. New York, Milbank Memorial Fund, 1956. 166 pp.
I. Underdeveloped areas. [See Titles 4152, 4153, and 4159, this issue.] II. Highly developed countries. [See Titles 4158, 4180, 4184, and 4156, this issue.] III. Research in mortality. [See Titles 4013, 4178, and 4183, this issue.]

4158 Spiegelman, Mortimer.
Recent trends and determinants of mortality in highly developed countries. Pp. 51-60 in: Milbank Memorial Fund. Trends and differentials in mortality. New York, 1956. 166 pp.
Summary of conclusions, based on a number of cited studies, concerning especially the influence of principal types of disease control, infant care, and accident prevention on the mortality records of highly developed countries with longer experience of low rates. Statement of principal factors in past and future improvement.

4159 Stolnitz, George J.
Comparison between some recent mortality trends in underdeveloped areas and historical trends in the West. Pp. 26-34 in: Milbank Memorial Fund. Trends and differentials in mortality. New York, 1956. 166 pp.
Evidence from life tables on postwar mortality trends in Ceylon, Japan, and some Caribbean areas. Evidence from other sources for other underdeveloped areas. Discussion of implications.

4160 Valaoras, Vasilios G.
Progress in mortality: a review of the last ten years. Le Démographe, No. 3, April, 1956. Pp. 43-47.
The overall approach. Analysis of causes of death. Other approaches.

[See also Titles 4002, 4008, 4013, 4031, 4033, 4058]

Prenatal Mortality

4161 De Rom, F.
[Campaign against stillbirths and early death in the newborn in Belgium.] De strijd tegen de perinatale sterfte in België. Belgisch Tijdschrift voor Geneeskunde (Louvain) 11(23):1121-1133. Dec. 1, 1955.°

4162 Metropolitan Life Insurance Company.
Perinatal mortality. Statistical Bulletin 37(4):1-4. April, 1956.
Summary of data on rates and causes of fetal deaths and of deaths under one week of age in the United States, 1950-1953.

4163 Schnabel, R. F.
A five-year study of fetal and newborn mortality at Iowa Methodist and Blank Memorial Hospitals, Des Moines. Journal of the Iowa State Medical Society (Des Moines) 46(1):8-16. Jan., 1956.

[See also Title 4031]

Infant Mortality

4164 France. Institut National de la Statistique et des Etudes Economiques.
[Contribution to the study of infant mortality in the northern region.] Contribution à l'étude de la mortalité infantile dans la région du nord. Etudes Statistiques, Supplément Trimestriel du Bulletin Mensuel de Statistique, No. 1, Jan.-March, 1956. Pp. 26-45, plus folding map.
Analysis of trends, 1930-1954, and of detailed data for 1952 and 1953, by communes. Deaths by age of the infant, month of the year, cause of death, socio-economic level of parents. Analysis of geographical variations: international, national, regional and

subregional, and by important towns. Special study of the mining zone, comparing rates among the mining and non-mining population, and for one arrondissement rates for certain immigrant groups.

4165 Saldún de Rogríguez, M. L., et al.
[Infant mortality.] Mortalidad infantil. Archivos de Pediatría del Uruguay (Montevideo) 26(8):755-776. Aug., 1955.°

4166 Schmitz, H. E., et al.
Neonatal deaths; a five-year survey. Obstetrics and Gynecology 7(2):189-195. Feb., 1956.°

4167 Whately, M. T., and Costa, A. A. de C.
[Levels of infant mortality.] Faixas de mortalidad infantil. Jornal de Pediatria (Rio de Janeiro) 20(9):547-553. Sept., 1955.°

[See also Titles 4161-4163, 4203]

Mortality at Other Ages

4168 Haas, J. H. de, et al.
Child mortality in the Netherlands. Kindersterfte in Nederland. Atlas. Assen, Van Gorcum, 1956. 96 pp. In Dutch and English.
Mainly graphs and tables covering data 1870-1954.

4169 Harmsen, Hans, Editor.
[On the development and organization of health services in Soviet Russia, in the East European People's republics and in East Germany. Vol. 4. Protection of and services for women and children in the Soviet Union and in East Germany.] Zur Entwicklung und Organisation des Gesundheitswesens in Sovjetrussland, in osteuropaischen Volksdemokratien und in Mitteldeutschland. Band IV. Schutz und Fürsorge für Frauen und Kinder in der Sovjetunion und in Mitteldeutschland. Hamburg, Akademie für Staatsmedizin in Hamburg, 1956. VI, 112 pp., processed.
Contents include, beside a historical review and texts of official pronouncements and laws, an article on the development of childhood mortality and services for pregnant women, mothers and children, from a talk by the Minister of Health of the U.S.S.R.

Life Tables

4170 Belcher, John C., and Tarver, J. D.
Abridged Oklahoma life tables, 1949-1951. Journal of the Oklahoma State Medical Association 49(1):10-16. Jan., 1956.°

4171 Chile. Servicio Nacional de Estadística.
[Abbreviated life table for 1952.] Tabla abreviada de vida para 1952. By Albino Bocaz S. Estadística Chilena 27(56):[155]-160. May-June, 1954.

4172 Cyprus. Secretariat. Statistics Section.
Life table No. 2. Pp. 30-31 in: Vital and migration statistics, 1953. Nicosia, 1954.°

4173 Israel. Central Bureau of Statistics and Economic Research.
Life tables of Jewish population; survivors out of 1,000 at given age (1950-1952); persons dying within five years out of 1,000 persons of a given age (1950-1952). P. 17 in: Statistical abstract of Israel 1952/1953. No. 4. Jerusalem, [1953].
Survivors at specific ages, per 1,000 persons born, by sex (Jews), (1951-1953); expectation of life at specified ages, by sex (Jews), (1951-1953); persons dying within five years out of 1,000 persons of given age (Jews), (1951-1953). P. 20 in: Statistical abstract of Israel 1953/54. No. 5. Jerusalem, 1954.

4174 Mauritius. Central Statistical Office.
Life table of the population of Mauritius, 1952. 6 pp.

4175 Paes Moraes, Joaquim J.
[Attrition tables for the unmarried for 1940 and 1950.] Tábuas de extinção de solteiros para 1940 e 1950. Centro de Estudos Demográficos, Revista No. 9 (Lisbon) 1954-55. Pp. 235-243, plus unpaged tables.
Life tables and tables of nuptiality for single persons, by sex, in Portugal.

4176 Sweden. Statistiska Centralbyrån.
[Life tables for 1941-50.] Dödlighets- och livslängdstabeller för årtiondet 1941-1950. Sveriges Officiella Statistik: Folkmängden och dess Förändringar. Stockholm, 1954. ix, 69 pp.°

4177 U.S. National Office of Vital Statistics.
Vital Statistics - Special Reports. Volume 41. Supplement. State life tables: 1949-51. (Life tables by sex for the white population of each state and for the nonwhite population of 16 southern states and the District of Columbia). Life tables computed in the Statistical Bureau of the Metropolitan Life Insurance Company. Washington, Govt. Printing Office, 1956. VIII,

460 pp.

"The 1949-51 life tables for each of the individual States, which were originally issued as separate reports, and are all made available in this volume, were prepared by the Statistical Bureau of the Metropolitan Life Insurance Company...." [Foreword by Halbert L. Dunn.] "This is the third occasion for which such life tables were prepared by the Statistical Bureau of the Metropolitan Life Insurance Company as a national service. A corresponding set of life tables for a decade earlier was published by the National Office of Vital Statistics in 1948 as 'State and Regional Life Tables: 1939-41.' [See 15(1):Title 244.] Life tables for individual States (except Texas) reflecting mortality during 1929-31 were published in 'Population Statistics: No. 2, State Data,' by the National Resources Committee, October, 1937...." [Foreword by Edward A. Lew.] [See 4(1):Title 46.]

4178 Valaoras, Vasilios G.

Standard age and sex patterns of mortality. Pp. 133-149 in: Milbank Memorial Fund. Trends and differentials in mortality. New York, 1956. 166 pp.

Presentation of life-table mortality rates for specified age intervals in 40 theoretical models, for both sexes combined, for males, and for females. Methods used in their construction. The use of the tables to define levels of average mortality rates by sex and age-groups for countries lacking complete or accurate mortality data.

[See also Titles 4031, 4463]

Mortality by Social and Economic Groups

4179 Lilienfeld, Abraham M.

Variation in mortality from heart disease — race, sex and socioeconomic status. Public Health Reports 71(6):545-552. June, 1956.

Analysis of the mortality from heart disease (coronary disease, myocardial degeneration, hypertension, etc.) in Baltimore, Md., for the 3-year period 1945-1951. Age-specific mortality rates by social class and comparisons with British data.

4180 Moriyama, Iwao M., and Guralnick, L.

Occupational and social class differences in mortality. Pp. 61-73 in: Milbank Memorial Fund. Trends and differentials in mortality. New York, 1956. 166 pp.

Report on analysis of 1950 mortality data for U.S. males, 20-64 years old, by occupation level, age, and race. Notes on quality of data, comparison with British experience, and tentative generalizations.

4181 Myers, Robert J., and Shudde, Louis O.

[Discussion of their paper (See 22:Title 1130)] Mortality experience of Union Civil War veterans. Society of Actuaries, Transactions. Vol. 7, Meeting No. 19. No. 1, Feb., 1956. Pp. 423-433.

4182 Rédei, Jenó.

[Differential mortality in capitalist countries.] A halandosagi kulonbsegek a kapitalista orszagokhan. Statisztikai Szemle (Budapest) 34(1):41-61. Jan., 1956. With summaries in Russian, English, and French.

A Marxist discussion centering on differences by socioeconomic class. References to the work of József Körösy and Gyula J. Pikler in Budapest before World War I, and to recent British data, as well as Dutch, French, and U.S. experience.

4183 Vance, Rupert B., and Madigan, Francis C.

Differential mortality and the "style of life" of men and women: a research design. Pp. 150-163 in: Milbank Memorial Fund. Trends and differentials in mortality. New York, 1956. 166 pp.

Background, purpose, and outline of proposed research comparing the mortality experience of two religious groups (certain American-Catholic Brothers and Sisters), in which the principal cultural contrasts between male and female "styles of life" are eliminated.

[See also Title 4164]

Mortality by Cause

4184 Dorn, Harold F.

Ecological factors in morbidity and mortality from cancer. Pp. 74-97 in: Milbank Memorial Fund. Trends and differentials in mortality. New York, 1956. 166 pp. With discussion by E. Cuyler Hammond.

Analysis of data, 1947-1948, for selected urban areas of the United States, based on morbidity surveys by the National Cancer Institute. Incidence rates for primary sites by age, sex, race. Mortality rates since 1900, similarly classified. Hypotheses to account for increased mortality from lung cancer.

4185 Felton, Jean S.

Accidental death related to industry. In-

dustrial Medicine and Surgery 24:524-537. Dec., 1955.

United States, certain states, and other countries.

4186 Haenszel, William, and Shimkin, Michael B.

Smoking patterns and epidemiology of lung cancer in the United States: are they compatible? Journal of the National Cancer Institute 16(6):1417-1441. June, 1956.

"This investigation was designed to test whether the results of special retrospective and prospective studies were compatible with more broadly based information on the distribution of lung cancer. A schedule of relative lung-cancer risks by smoking class was adopted from these special studies and applied to distributions of cigarette-smoking patterns in the United States population as found in a recent survey. The observed sex, urban-rural, white-nonwhite, and regional ratios of lung cancer morbidity and mortality were compared with those predicted by the model adopted for investigation. Correspondence between the observed facts and the predictions was good and the results do not contraindicate generalizations from the special-study findings on excess risk of lung cancer among cigarette smokers to the total population."

4187 Lewis, A.

Statistical aspects of suicide. Canadian Medical Association Journal 74(2):99-164. Jan. 15, 1956.

4188 Modrzewska, K.

[Mortality in pulmonary tuberculosis in Bialystok during 1925-45.] Umieralność z powodu gruźlicy płuc w Białymstoku w latach 1925-1945. Gruźlica (Warsaw) 23(7): 505-510. July, 1955.

4189 Moriyama, Iwao M.

Development of the present concept of cause of death. American Journal of Public Health and the Nation's Health 46(4):436-441. April, 1956.

A discussion of the limitations of current U.S. data on cause of death and of the international classification of diseases, injuries, and causes of death.

4190 Pérez, M.L.

[Maternal mortality.] Mortalidad materna. Obstetricia y Ginecologia Latino-Americanas (Buenos Aires) 13(7):239-248. July, 1955.°

4191 Sauter, Arnold.

[Tuberculosis mortality.] Die Tuberkulosesterblichkeit. Pp. 40-66 in: Biblioteca Tuberculosea, Fasc. 7. Basel, 1954.

4192 Simon, L.

[The influence of maternity institutions on maternal mortality.] Förlossningsorganisationens verkan på mödradödligheten. Nordisk Medicin (Stockholm) 54(45):1696-1698. Nov. 10, 1955.°

4193 U.S. National Office of Vital Statistics.

Vital Statistics — Special Reports. Vol. 43. Death rates by age, race, and sex: United States, 1900-1953. Washington, 1956.

Nos. 1 and 2. See 22:Title 3184.

No. 3. Syphilis and its sequelae. May 15, 1956. Pp. 35-50.

No. 4. Typhoid fever. May 16, 1956. Pp. 51-66.

No. 5. Dysentery, all forms. May 17, 1956. Pp. 67-82.

No. 6. Diphtheria. May 18, 1956. Pp. 83-98.

No. 7. Whooping cough. May 21, 1956. Pp. 99-114.

No. 8. Meningococcal infections. May 22, 1956. Pp. 115-130.

No. 9. Acute poliomyelitis. May 23, 1956. Pp. 131-146.

No. 10. Measles. May 24, 1956. Pp. 147-162.

No. 11. Malignant neoplasms. June 27, 1956. Pp. 163-186.

No. 12. Diabetes mellitus. June 28, 1956. Pp. 187-202.

4194 Watson, B. P.

Factors responsible for the lowering of maternal mortality in the last fifty years. Journal of Obstetrics and Gynaecology of the British Empire (Altrincham) 62(6):838-852. Dec., 1955.°

[See also Titles 4153, 4155, 4159, 4164, 4179, 4431]

F. FERTILITY AND NATURAL INCREASE

General Fertility

4195 Allen, Gordon.

Comments on the analyses of twin samples. Part I. The parent population. Part II. The sample. Acta Geneticae Medicae et Gemellologiae (Rome) 4:143-160. 1955.

"Part I deals with the necessity to make

some statistical corrections when estimating twin frequencies from birth and mortality data." [P.A. 30(2)]

4196 Almeida Garrett, Antonio de.
[The problems of natality. 17. The question of levels of living. 18. The Portuguese case. 19. Desirable natality. 20. Summary and conclusions.] Os problemas da natalidade. XVII. A questão do nível de vida. XVIII. O caso português. XIX. A natalidade desejável. XX. Resumo e conclusões. Centro de Estudos Demográficos, Revista (Lisbon) No. 9, 1954-55. Pp. 15-70.
For citation to earlier sections, see 21: Title 2129.

4197 Backer, Julie E.
The trend of marital fertility in Norway 1931-1954. Bevegelsen i den ekteskapelige fruktbarhet i Norge 1951-1954. Statistiske Meldinger (Oslo) 74(5):117-132. 1956. With English translation of title and headings.
Analysis of the fertility of marriage cohorts in Norway, 1931-1954, with a review of data on birth and marriage rates, 1916-1954.

4198 Brazil. Conselho Nacional de Estatística.
[Female fertility in the State of Minas Gerais.] A fecundidade feminina no estado de Minas Gerais. Boletim Estatístico 14 (53):1-8. Jan.-March, 1956.
Analysis of births by age and color according to the 1950 and 1940 censuses.

4199 Clark, Colin.
Population trends. [Paper presented at the] Manchester Statistical Society, read 14th December, 1955. [Reprint. Manchester, 1956.] 20 pp.
Discussion of measures of reproductivity from Boeckh to Henry. Description of a method of analysis, of which the "...basic principle is to follow the fortunes of a cohort of women, through one census and through a number of years of registration, to measure the accumulated number of births, of each sequence, recorded to them." Adjustments for migration. Presentation of tables of expected total offspring from cohorts of women born in quinquennia centered on years indicated (about 1905-1930), for England and Wales, Scotland, Australia, Japan, United States.

4200 Elizaga, Juan C.
[A method of measuring fertility and its applications to the calculation of population growth.] Un método para medir la fecundidad y sus aplicaciones en el cálculo del desarrollo de la población. Rosario, Argentina, Universidad Nacional del Litoral, Instituto de Población, 1954. 20 pp. Reprinted from Estocastica (Buenos Aires), Vol. 2, No. 3.
Paper presented at the Segundo Coloquio Argentino de Estadística at Cordoba, Oct. 27-31, 1953.
Topics discussed include: a systematic error in the cumulative reproduction rates, calculated with current data; fertility by birth order; reproduction rates on the basis of birth order; the distribution of women of one generation according to the number of children at the end of the reproductive period; present fertility and fertility trends; forecasts of the number of births. Appendix: Some applications to the fertility of Buenos Aires city based on data of the 1936 census.

4201 Ghilain, J.
[Decline of fertility among the ethnic Mongos.] La dénatalité dans l'ethnie Mongo. Institut Royal Colonial Belge, Bulletin des Séances (Brussels) 24(3):863-871. 1953.

4202 Girard, Alain, and Henry, Louis.
[Attitudes and the demographic situation: natality, family structure, and the limits of active life.] Les attitudes et le conjoncture démographique: natalité, structure familiale et limites de la vie active. Population (Paris) 11(1):105-141. Jan.-March, 1956.
The results of a sample survey by the Institut National d'Etudes Démographiques in November, 1955, to study the attitude of the French public towards ideal family size and composition. Description of the sample (2533 persons throughout France). Presentation of results: natality and population movement; age at marriage and family composition; the limits of active life. Summary and interpretation of findings.

4203 India. Ministry of Finance.
The national sample survey, No. 7. Couple fertility. By Ajit Das Gupta et al. [Calcutta], 1955. vi, 200 pp. Reprinted in Sankyhā (Calcutta) 16(3-4):230-434. April, 1956.
Based on data collected by the National Sample Survey in the Second Round, April-June, 1951 (19,876 couples) and the Fourth Round, April-September, 1952 (14,110 and 6,175 couples), and prepared by the Indian Statistical Institute.
Chapters include: The line of analysis; Accuracy of results; Ages at marriage; Fertility performance; Intervals to births; Infant death proportions; Sex ratio at birth.

Detailed tables, covering differential fertility by geographical area, rural-urban residence, socio-economic and religious groups.

Data indicate "a progressive increase in couple fertility by marriage duration, and a prospect of eventual increase in the total fertility of recent couples in the long run. Factors such as the gradual advancing of marriage ages, longer survival effect of the couples married younger or progressive omission in recall of the earlier children born by the older marriage cohorts are not enough to explain this trend of increasing fertility, which is quite distinct and substantial."

4204 Ryder, Norman B.
[The measurement of variations in fertility over time.] La mesure des variations de la fécondité au cours du temps. Population (Paris) 11(1):29-46. Jan.-March, 1956.

Discussion of concepts and problems in recent research under the headings: classification by cohorts, increased specificity, birth timing, cohorts of uncompleted fertility, short-term and long-term fertility variations, justification of cohort analysis.

4205 Solomon, Erwin S., et al.
Social and psychological factors affecting fertility. XXXI. Fear of childlessness, desire to avoid an only child, and children's desires for siblings. Milbank Memorial Fund Quarterly 34(2):160-177. April, 1956.

A study of reasons given by each parent for having the second child in two-child planned families. Continuing the Indianapolis survey.

4206 Taeuber, Irene B.
Fertility and research on fertility in Japan. Milbank Memorial Fund Quarterly 34 (2):129-149. April, 1956.

Review of postwar trends in fertility performance and historical survey of research since the 20's, discussing aims, agencies, tools, publication of findings, influence on policy, unsolved problems, broad relevance.

4207 Vincent, Paul.
[Biometric data on conception and pregnancy.] Données biométriques sur la conception et la grossesse. Population (Paris) 11(1):59-82. Jan.-March, 1956.

Review of recent research, since the author's earlier study, Statistiques relatives à l'ovulation, à la menstruation et à la grossesse. Discussion covers measures of fecundity, models, needed statistics, menstruation and ovulation, duration of menstrual cycle, duration of pregnancy. Conclusions include notes on revisions of the theoretical basis of the rhythm method.

4208 Whelpton, P. K., and Freedman, Ronald.
A study of the growth of American families. American Journal of Sociology 61(6): 595-601. May, 1956.

"Abstract: Field work has been completed for a national sample study of the growth of American families. Its objectives are: (1) to study expectations of size of family as one basis for better forecasts of births; (2) to describe differences in fertility behavior for major population strata; and (3) to test the relationship of basic social variables to fertility behavior. A national probability sample of white married women in the childbearing years has been interviewed and field work has been completed. The response rate was high."

4209 Yerushalmy, J., et al.
Longitudinal studies of pregnancy on the island of Kauai, Territory of Hawaii. I. Analysis of previous reproductive history. American Journal of Obstetrics and Gynecology 71(1):80-96. Jan., 1956.°

[See also Titles 4008, 4014, 4017, 4031, 4212, 4343, 4462]

Differential Fertility

4210 Federici, Nora.
[Social factors and growth of homogeneity in demographic behavior.] Fattori sociali ed omogeneizzazione nel comportamento demografico. Statistica (Bologna) 15(4): 537-558. Oct.-Dec., 1955.

A study of differential fertility according to socioeconomic class in Italy, 1910-1952, with some comparative data from France and the United States.

4211 Kruyt, J. P.
[The population problem in the Netherlands.] Het bevolkingsvraagstuk in Nederland. Socialisme en Democratie (Amsterdam), No. 10, Oct., 1955. Pp. 513-530.

A regional survey, including birth rates of different regions compared with a century ago. Discussion of the influence of religious affiliation on population. Discussion of population policy from several points of view.

4212 Lilienfeld, Abraham M., and Pasamanick, Benjamin.
A study of variations in the frequency of twin births by race and socio-economic

status. American Journal of Human Genetics 7(2):204-217. June, 1955.

A study of the frequency of mono- and dizygotic twin births in Baltimore, 1941-1948.

4213 Solomon, Erwin S.

Social characteristics and fertility: a study of two religious groups in metropolitan New York. Eugenics Quarterly 3 (2):100-103. June, 1956.

Sample study, based on records and interviews, of a junior-high-school class in a Brooklyn school-district, comparing Christian and Jewish groups as to average number of children per family correlated with IQ scores and with father's occupation.

[See also Titles 4040, 4202, 4203, 4208, 4340]

Sterility and Other Pathology

4214 Rider, R., et al.

Associations between premature birth and sociometric status. American Journal of Public Health 45(8):1022-1028. Aug., 1955.

4215 Schoeneck, F. J.

Repeated pregnancy wastage. Public Health Reports 71(5):493-494. May, 1956.

Report on clinical histories of 653 pregnancies in two years in and around Syracuse, N. Y.

[See also Title 4192]

Fertility Controls

4216 Abrahamson, E.

[Psychiatric approach to induced abortion.] Några psykiatriska synpunkter i abortfrågan. Social-Medicinsk Tidskrift (Stockholm) 31(2):51-54. Feb., 1954.°

4217 All India Conference on Family Planning, Second.

Report of the proceedings 1-4 January, 1955, Campus, Lucknow University, U. P. Bombay, Family Planning Association of India, [1955]. xvi, 115, [2] pp.

4218 Amano, Fumiko Y.

Family planning movement in Japan. Japanese Planned Parenthood Quarterly 6(4):84-89. Oct.-Dec., 1955.

History of the movement since the early 'twenties.

4219 Berkeley-Hill, Owen.

Unconscious motives for and against birth control. Journal of Family Welfare (Bombay) 2(3):93-97, 107. March, 1956.

Psychoanalytical considerations.

4220 Gibbons, William J.

Fertility control in the light of some recent Catholic statements. Part II. Eugenics Quarterly 3(2):82-87. June, 1956.

For citation to Part I, see 22:Title 3209.

4221 Harmsen, Hans.

[Abortion or birth control?] Abtreibung oder Empfängnisverhütung? Gesundheitsfürsorge (Stuttgart), Vol. 3, 1953. Pp. 122-125.

[Abortions and birth control in Germany.] Abtreibungen und Empfängnisverhütung in Deutschland. Zeitschrift für Sozialhygiene (Berlin), No. 1, 1949. Pp. 28-30.°

[Responsible parenthood or abortion, an international problem of the present.] Bewusste Elternschaft oder Abtreibung als internationales Gegenwartsproblem. Berliner Gesundheitsblatt, Vol. 4, 1953. Pp. 245-248.

[From "birth control" to "responsible parenthood."] Von der "Geburtenregelung" zur "Bewussten Elternschaft." Medizinische Klinik (Berlin), Vol. 48, 1953. Pp. 589-592.

4222 India. Ministry of Health.

Proceedings of the first meeting of the Family Planning Research and Programmes Committee (13th to 18th July, 1953). Delhi, Manager of Publications, 1954. ii, 78 pp.

Proceedings of the second meeting of the Family Planning Research and Programmes Committee (18th and 19th January, 1954). Delhi, Manager of Publications, 1954.

4223 International Planned Parenthood Federation.

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4224 Lancet.

Contraception. Lancet 270(6908):142-143. Jan. 21, 1956.

A short review of some recent research on oral contraceptives.

4225 Mimet, P. R.

[World movement favoring family limitation.] Le mouvement dans le monde en faveur de la limitation des familles. Se-

maine Médicale (Paris) 31(44):1397-1400. Nov. 30, 1955.°

4226 Narain, Barket.
Family planning and community development programme. Journal of Family Welfare (Bombay) 2(3):85-87, 92. March, 1956.

4227 Olson, Lawrence.
Birth control in Japan. A letter from Lawrence Olson. New York, American Universities Field Staffs, March 30, 1956. 9 pp., processed.

4228 Raja, K. C. K. E.
Family planning in relation to the population problem and community welfare. Reprinted from: International Journal of Sexology, Vol. 8, No. 3. Feb., 1955. Pp. 1-14.

4229 Stycos, J. Mayone, et al.
Contraception and Catholicism in Puerto Rico. Milbank Memorial Fund Quarterly 34(2):150-159. April, 1956.
Report on the parts of three sample surveys that relate to the effect of religious beliefs and behavior on fertility planning.

4230 Tassinari, G.
L'A.I.E.D. e il birth control in Italia. Occidente (Turin), No. 4, 1955. Pp. 343-348.
The creation of the "Associazione Italiana per l'Educazione Demografica" for the development of birth control in Italy. [B. A.D. 10(10)]

4231 Zuckerman, Solly.
Physiological control of population growth. Nature 177(4498):58-60. Jan. 14, 1956.
Report on the physiological papers presented at the meetings of the International Planned Parenthood Federation in Tokyo, October, 1955.

[See also Titles 4031, 4207, 4365]

G. MARRIAGE, DIVORCE, & THE FAMILY

Marriage and Divorce

4232 Böök, J. A., and Mäwe, C.-E.
The incidence of cousin marriages in a West-Swedish rural community. American Journal of Human Genetics 7(4):426-429. Dec., 1955.

4233 Cizon, Francis A.
Interethnic and interreligious marriage patterns in parish X. American Catholic Sociological Review 15(3):244-255. Oct., 1954.
Study of Catholic marriages recorded in the parish records for 1923-1952 of a parish consisting of second generation Poles, situated in a larger, ethnically heterogeneous community. [S.A. 4(2)]

4234 Germany. Federal Republic. Statistisches Bundesamt.
[Legal dissolutions of marriage in the Federal territory in 1954.] Die gerechtlichen Ehelösungen im Bundesgebiet im Jahre 1954. Statistische Berichte, VIII/13/6. Oct., 1955. 18 pp.
Summary of legislation on annulment and divorces and annual data, 1946-1954, on dissolutions by Länder, sex, grounds cited, duration of marriage, respective ages of partners at time of divorce, number of minor children, religion, etc. [Population 11 (1)]

4235 Great Britain. Royal Commission on Marriage and Divorce.
Report, 1951-1955. Presented to Parliament by command of Her Majesty, March, 1956. Cmd. 9678. London, H.M. Stationery Office, 1956. x, 406 pp.
Text gives a historical summary of the divorce law and discusses present provisions and proposed changes. A statistical appendix is included.

4236 Klinger, András, and Szabady, Egon.
[Trend of marriage rates in Hungary.] A házasságkötések alakulása Magyarországon. Statisztikai Szemle (Budapest) 34 (3):218-238. March, 1956. With Russian, English, and French summaries.
Postwar trends in nuptiality in comparison with the prewar period. Marriage rates, age at marriage, characteristics of marriage partners.

4237 Leeuwen, B. van.
[Rise and decline of the number of mixed marriages of Catholics in the Netherlands.] Das Ansteigen und Absinken des Umfanges der Mischehen von Katholiken in den Niederlanden. Social Compass (The Hague) 2(1):1-27. May-June, 1954/55.
Comparison of ecclesiastical and census data since 1914-15, distinguishing provinces and principal towns.

4238 Massé, L.
[A contribution to the study of the town of Thiès. A note on a socio-demographic sample survey. First numerical analysis

of the marital situation.] Contribution à l'étude de la ville de Thiès. Note concernant un sondage socio-démographique. Premier dépouillement numérique sur la situation matrimoniale. Bulletin de l'Institut Français d'Afrique Noire (Dakar) Série B: Sciences Humaines 18(1-2):255-280. Jan.-April, 1956.

Report on a sample survey conducted in 1953 by the Sociology section of Ifni, following the census of 1953. Description of the sample, the questionnaire, field work, and processing of data. Presentation of summary data on numbers of heads of households and their respective wives, in relation to occupation and age.

4239 Metropolitan Life Insurance Company.

The American husband. Statistical Bulletin 37(4):4-6. April, 1956. [Summary of data on characteristics of husbands in the United States, by age groups, April, 1955.]

Married population at new high. Ibid. 37 (5):4-5. May, 1956. [Summary of data on per cent married, by sex and age, United States, 1890-1955.]

4240 O'Connor, Daniel A.

Catholic social doctrine. The Church's teaching on the principles of sociology. Westminster, Md., The Newman Press, 1956. xii, 206 pp.

Contains chapter, Pope Pius XII on marriage and the family.

4241 Petrov, N. A.

[Marriage and the family in the new China.] Sovetskaya Etnografiya (Moscow), No. 1, 1954. Pp. 85-96. In Russian.

"Historical account of marriage and the condition of women in China. Legal enactments of 1949 and 1950, supported by active propaganda, established equality of rights as between men and women, freedom of marriage and divorce, forbade concubinage and wife purchase, permitted the widow to remarry. The effects begin to be felt a little. The proportion of marriages by purchase remains very high, but the number of suicides of wives has greatly decreased." [B.A.P. 9(2)]

4242 Plank, K.

[Regulation of marriage in the new Hungarian laws on marriage, family, and guardianship.] Pravnicke Studie (Bratislava) 2(2):323-360. 1954. In Czech, with German and Russian summaries.

4243 Pressat, Roland.

[The remarriage of widowers and widows.] Le remariage des veufs et des veuves. Population (Paris) 11(1):47-58. Jan.-March, 1956.

Description of study of remarriages in France in 1951 and 1952 by the Institut National de la Statistique et des Etudes Economiques. Evaluation of data. Estimates of probable remarriage according to age at widower- or widow-hood. Distribution of remarriages according to duration of widower- or widow-hood.

4244 T[isserand]-P[errier], M.

[Three documents on the possible correlations between the characteristics of married couples.] Trois documents sur les correlations possibles entre les caractéristiques des époux. Notes et Documents. Population (Paris) 11(1):145-150. Jan.-March, 1956.

Summaries of the findings of two Parisian studies of preferences as to physical characteristics (age, height, weight, coloring) of future spouses. Also an analysis of divorces in a Parisian arrondissement in 1954 of marriages registered in 1928-29, covering age differences between spouses and occupations of husband and of wife.

4245 Willems, Emilio.

Intermarriage among German Brazilians. I.C.M.C. Migration News 5(2):10-18. March, 1956.

[See also Titles 4031, 4085, 4175, 4197, 4202]

The Family

4246 Bardis, Panos D.

The changing family in modern Greece. Sociology and Social Research 40(1):19-23. 1955.

"The author reviews theoretical literature dealing with the family and gives a summary of the characteristic features of the average Greek family of today." [P.A. 30(3)]

4247 Bossard, James H. S., and Boll, Eleanor S.

The large family system; an original study in the sociology of human behavior. Philadelphia, University of Pennsylvania Press, 1956. 325 pp.

Based on case histories of 100 large families, each with six or more children, supplemented with material from members of 50 additional large families.

4248 Collins, Sydney F.

The Moslem family in Britain. Social and Economic Studies (Mona, Jamaica) 4(4):

326-337. Dec., 1955.

A sociological study of the family life of the Dockland Moslem population in a Tyneside community, between 1949 and 1951.

4249 Indonesia. Service d'Information de l'Ambassade de l'Indonésie en France.

[The Indonesian woman in family law and in her relationship to society.] La femme indonésienne dans le droit de la famille et dans ses rapports avec la société. Informations Indonésiennes (Paris), Nov. 1, 1955. Pp. 21-27.

4250 Lew, Edward A.

Profile of the American family. Paper presented at the New York Academy of Medicine, April 26, 1956. 12, [8] pp., processed.

Data on marriages, births, child dependency, widows, and orphans, based on estimates by the Metropolitan Life Insurance Company.

4251 Valk, M. H. van der.

Conservatism in modern Chinese family law. Studia et Documenta ad Iura Orientis Antiqui Pertinentia, Vol. IV. Leiden, E. J. Brill, 1956. [vi], 90 pp.

Contents: Rules of relationship and prohibitions to marriage; House; Bigamy; T'ung yang hsi; Marriageable age; Sale and pawning of women; Conclusion. Six appendixes deal with official regulations and interpretations of the family code.

4252 Willems, Emilio.

[The family in Portugal and Brazil: an essay in comparative structure.] Die Familie in Portugal und Brasilien: ein strukturvergleichender Versuch. Kölner Zeitschrift für Soziologie, No. 1, 1955. Pp. 24-42.

Forms, functions and changes in the family in the two countries. Class and regional differences. [B.A.D. 10(10)]

[See also Titles 4077, 4086, 4202, 4205, 4208, 4240-4242, 4428]

H. INTERNATIONAL MIGRATION

General

4253 Acher, Gilbert.

[Italian migration across the Alps.] Les migrations italiennes à travers les Alpes. Annales de Géographie (Paris) 64(345): 340-358. Sept.-Oct., 1955.°

4254 Canino, Antonio.

[Italian emigration.] L'emigrazione italiana. Pp. 483-505 in: Atti del Congresso Internazionale di Studio sul Probleme della Aree Arretrate, Milano, 10-15 ottobre 1954, Vol. I. Milan, Dott. A. Giuffrè Editore, 1954. XII, 1286 pp.

4255 Davis, S. G.

Chinese emigration through Hong Kong. Ekonomi dan Keuangan Indonesia (Djakarta) 8(1): 25-39. 1955.

A survey of Chinese emigration, estimates of the Chinese population in each of the Southeast Asian countries before 1947, and notes on the immigration policies of these countries. [T.A. 10(8)]

4256 Klein, J. K.

[The causes of emigration to the West.] Les causes de l'émigration á l'Ouest. Documents, Revue Mensuelle des Questions Allemandes (Offenburg), Oct., 1955. Pp. 1238-1255.

Includes data on the occupational situation in the German Democratic Republic.

4257 Luxembourg. Service d'Etudes et de Documentation Economiques, and Office de la Statistique Générale.

[Luxembourgers in France, in the censuses from 1891 to 1946.] Les Luxembourgeois en France, recensements de 1891 à 1946. Bulletin du Service... 5(2): 63-68. April-June, 1954.°

4258 Mintz, Sidney W.

Puerto Rican emigration: a threefold comparison. Social and Economic Studies (Mona, Jamaica) 4(4): 311-325. Dec., 1955.

A study of three migration situations (to New York City, St. Croix, and Hawaii). Comparison of data on the economic and social situations, the characteristics of the migrants and of the host groups. Evaluation of factors in successful adaptation.

4259 Müller, K. V.

[Selective migration between the Soviet and Western occupation zones in Germany.] Selektive Wanderung zwischen sowjetischem und westlichem Besatzungsgebiet in Deutschland. Pp. 103-107 in: International Sociological Association. Transactions of the second World Congress of Sociology.... Vol. 2. London, 1954. xxix, 450 pp.

4260 Portugal. Instituto Nacional de Estatística.

[Population movements between Portugal and the overseas territories in the years 1951 to 1953.] O movimento populacional entre a métropole e o ultramar nos anos de

1951 a 1953. Boletim Mensal 26(4):1-10. April, 1954.°

4261 Senior, Clarence, and Manley, Douglas.
British experience of immigration. I.C.M.C. Migration News 5(2):3-9. March, 1956.

4262 U.S. Department of State. Office of Intelligence Research.
Immigration to Latin America, 1946-54. Intelligence Report, No. 7257. May 25, 1956. 12 pp., processed.
Summary and presentation of data on estimated gross and net migration to Latin America, by countries of origin and of destination, 1946-1954. Particulars of reported movements to and from Italy, Spain, Portugal, Argentina, Brazil. Numbers of displaced persons resettled in Latin America by the International Refugee Organization, 1947-1951.

4263 Winkler, Wilhelm.
[Austrians abroad; in cooperation with the World Federation of Austrians Abroad and with the support of the Office of the Chancellor, Foreign Affairs.] Die Österreicher im Ausland; im Einvernehmen mit dem Weltbund der Österreicher im Auslands und mit Unterstützung des Bundeskanzleramtes, Auswärtige Angelegenheiten. Vienna, Universität, Institut für Statistik, 1955. 32 pp.

4264 Zubrzycki, Jerzy.
Polish immigrants in Britain: a study of adjustment. Studies in Social Life, III. The Hague, Martinus Nijhoff, 1956. x, 220 pp.
Part I has chapters: Political emigration [the Napoleonic wars; the Great Emigration]; Mass emigration in search of better economic opportunities [the demographic background; conditions conducive to emigration; seasonal emigration; the inter-war period]; The Polish minority in Great Britain [from the Reformation to World War II]. The rest of the book describes the community since 1940 and factors in its social adjustment. Appendixes include a survey of the principal centers of population of permanent emigration: the United States of America, France, Brazil.

[See also Titles 4022, 4023, 4055, 4095, 4143, 4369, 4376, 4377, 4381, 4438]

Settlement and Resettlement

4265 Blöcker, H.
[German colonization in Paraguay.] Deutsche Kolonisation in Paraguay. Übersee Rundschau (Hamburg) 7(10):44-46. 1955.
A historical survey. [T.A. 10(23)]

4266 Perez Guerrero, Edmundo.
[Colonization and immigration in Ecuador.] Colonización e inmigración en el Ecuador. Quito, Casa de la Cultura Ecuatoriana, 1954. x, 259 pp.°

4267 Ratto, M. Orsini.
[The crisis in Chile and Italian colonization.] La crisi nel Cile e la colonizzazione italiana. Rivista di Politica Economica (Rome) 45, III(12):1079-1083. Dec., 1955.
Economic problems.

[See also Titles 4041, 4043, 4044, 4047, 4050, 4052, 4081, 4082, 4352]

Temporary Movements

4268 Belgium. Ministère du Travail et de la Prévoyance Sociale.
[The emigration of Belgian seasonal workers to France in 1953 and in 1954.] L'émigration des ouvriers saisonniers belges vers la France en 1953 et en 1954. Revue du Travail 57(2):306-322. Feb., 1956.
Review of statistics since 1946 and detailed data for 1954 on Belgian localities of origin of emigrants, for the principal French industries. Statistical maps. Notes on social security coverage in the two countries and on the characteristics of the emigrant workers as to degree of mobility and age.

[See also Titles 4053, 4346, 4371, 4376, 4377]

Refugees

4269 Ahmad, Kazi S.
A geographical study of the refugee population and some of its problems. Pakistan Geographical Review (Lahore) 10(2):1-18. 1955.

4270 Harmsen, Hans.
[Numerical and population-biological importance of the German displaced people and the refugees from the Soviet Zone.] Zahlenmässige und bevölkerungsbiologische Bedeutung der deutschen Heimatvertriebenen und Sowjetzonenflüchtlinge. Städtehygiene (Freiburg i.B.) 4:149-154. 1953.

4271 United Nations Educational, Scientific, and Cultural Organization.
Flight and resettlement. New York, Columbia University Press, 1955. 231 pp.
Sixteen papers dealing with the psychological problems caused by population movements among European refugees and displaced persons, 1945-1950.

4272 Van Heuven Goedhart, G. J.
The problem of refugees. Pp. 265-379 in: Recueil des Cours de l'Académie de Droit International 82, 1953 (I). Leyden, Sijthoff, 1954.
"A detailed analysis of the tasks of the United Nations High Commissioner for Refugees shows the complexity of the work undertaken and the difficulty of finding completely satisfactory solutions to the questions involved in the rehabilitation and readjustment of refugees." [I.S.S.B. 7(3)]

[See also Titles 4256, 4284, 4313, 4352, 4375, 4382, 4383]

I. INTERNAL MIGRATION

General

4273 Horstmann, Kurt.
[Internal migration in the countries of Europe.] Die Binnenwanderung in den Ländern Europas. Raumforschung und Raumordnung (Bonn) 13(4):193-202. 1955.°

4274 Klein, W. C.
[Migration of the populations of the Belgian Congo and of Netherlands New Guinea and the discussions at the recent International Seminar on Africa held at Ghent.] Bevolkingsmigratie in Belgisch Congo en in Nederlands Nieuw-Guinea en de discussies op de recente Internationale Afrikaanse Studiedagen te Gent. Tijdschrift voor Economische en Sociale Geografie (Rotterdam) 47(2):37-48. 1956. With French summary.
Includes bibliography.

4275 Osborne, R. H.
Internal migration in England and Wales, 1951. Advancement of Science 12(148):424-434. March, 1956.
"The pattern of internal migration as revealed by an analysis of the birthplace statistics obtained at the 1951 census." Tables, map, chart.

4276 P[errin], N[adine].
[Rural migration in France since 1949.] Les migrations rurales en France depuis 1949. Notes et Documents. Population (Paris) 11(1):151-153. Jan.-March, 1956.
Summary of a report of the Ministry of Agriculture, dated Dec. 30, 1955, entitled Résultats de la politique des migrations rurales de 1949 à 1955.

4277 U.S. Public Health Service.
Domestic agricultural migrants in 10 East Coast states. Publication No. 478. Washington, Supt. of Documents, Dec., 1955. 1 folded sheet: table, chart, map.
"Counties which had 100 or more at peak of the 1954 crop season." [P.A.I.S. 42(35)]

[See also Titles 4070, 4094, 4129, 4258, 4302, 4348]

Rural-urban

[See Titles 4082, 4092, 4114, 4276]

Settlement and Resettlement

4278 Brice, W. C.
The Turkish colonization of Anatolia. John Rylands Library, Manchester, Eng., Bulletin 38:18-44. 1955.°

4279 Coene, R. de.
Agricultural settlement schemes in the Belgian Congo. Tropical Agriculture (Trinidad) 33(1):1-12. Jan., 1956.°

4280 Ferreira Reis, Arthur C.
[Social aspects of the development of the Amazon.] Aspectos sociais da valorização da Amazônia. Recife, Instituto Joaquim Babuco de Pesquisas Sociais, 1955. 22 pp.°

4281 Gadille, Jacques.
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4282 Gourou, Pierre.
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K. DEMOGRAPHIC AND ECONOMIC INTERRELATIONS

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[See also Title 4324]

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[See also Titles 4014, 4024, 4032]

M. POLICIES

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[See Titles 4020, 4027, 4058, 4060, 4211]

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[See also Titles 4196, 4206, 4218, 4223, 4227, 4228]

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4458 U.S. Bureau of the Census.
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"This report presents detailed statistics on the social and economic characteristics of the workers in each occupation in the United States. The characteristics shown include urban-rural residence, nativity and citizenship, race, age, marital status, residence in 1949, years of school completed, class of worker, hours worked, weeks worked, and income. The data are based on tabulations of a 3 1/3 percent sample of the returns obtained in the Seventeenth Decennial Census of the population of the United States, conducted as of April 1, 1950...."

4459 U.S. Bureau of the Census.
U.S. Census of Population: 1950. Vol. IV. Special reports. Part 4. Chapter B. Population mobility: states and state economic areas. Washington, Govt. Printing Office, 1956. IV, 312 pp. [P-E No. 4B]
"This report presents statistics on the extent to which persons 1 year old and over living in continental United States at the time of the 1950 Census changed their residence between 1949 and 1950.... The information is based largely on the 20-percent sample data. The statistics present selected demographic, social, and economic characteristics of the population 1 year old and over classified by mobility status. Information is presented for the United States, regions, geographic divisions, States and State economic areas."

4460 U.S. National Office of Vital Statistics.
Monthly Vital Statistics Report. Provisional statistics on births, marriages, and deaths for [month], with data on causes of death and on divorces for [preceding month].
Vol. 4, No. 13. Annual summary for 1955. [In 2 parts.] Part 1. Provisional vital statistics for the United States. March 19, 1956. 8 pp. Part 2. Estimated numbers of deaths and death rates for selected causes: United States, 1955. May 28, 1956. 23 pp.
Vol. 5, No. 4, for April 1956 was issued on June 26. 8 pp.

4461 U.S. National Office of Vital Statistics.
Vital statistics of the United States, 1954. Volume II. Mortality data. Washington, Govt. Printing Office, 1956. [vi], 506 pp.
Mortality data for the United States and

for each state. Total deaths (exclusive of fetal deaths).

4462 U.S. National Office of Vital Statistics.
Vital Statistics — Special Reports. Vol. 39. Selected studies. Washington, 1954-.
Nos. 1-6. See 22: Title 3501.
No. 7. Mortality from selected causes by marital status: United States, 1949-51. May 8, 1956. Pp. 303-430.
No. 8. Progress in development of fertility statistics and population estimates. A report of the U.S. National Committee on Vital and Health Statistics. May 14, 1956. Pp. 431-442. [Report prepared by the Subcommittee on Fertility and Population, P. K. Whelpton, Chairman. Sections: Progress made in implementing previous recommendations, and recommendations for future action; Kinds of population statistics needed for health statistics; The current state of development of techniques of population estimation; A program for experimentation on population estimates.]

4463 U.S. National Office of Vital Statistics.
Vital Statistics — Special Reports. Vol. 44. National summaries [1954]. Washington, 1956.
No. 1. See 22:Title 3503.
No. 2. Abridged life tables: United States, 1954. May 15, 1956. Pp. 33-44.
No. 3. Natality: United States, and each state, and Alaska, Hawaii, Puerto Rico, and the Virgin Islands (U.S.), 1954. May 31, 1956. Pp. 45-66.
No. 4. Marriages, and divorces and annulments: United States, each state and county, 1954. June 4, 1956. Pp. 67-90.
No. 5. Marriages and divorces: United States and each state, and Alaska, Hawaii, Puerto Rico, and the Virgin Islands (U.S.), 1954. June 6, 1956. Pp. 91-102.
No. 6. Marriages: detailed statistics for reporting areas, 1954. July 5, 1956. Pp. 103-134.

4464 U.S. Bureau of the Census.
Current Population Reports. Series P-20. Population characteristics. Washington, 1947-.
Nos. 1-66. See 22:Title 3504.
No. 67. Household and family characteristics: April 1955 and 1954. May 2, 1956. 23 pp.
No. 68. Households and families, by type: 1950 to 1956. June 13, 1956. 4 pp.

4465 U.S. Bureau of the Census.
Current Population Reports. Series P-23. Washington, 1949-.
Nos. 1 and 2. See 20(4):Title 2298.
No. 3. Expansion of the Current Population Survey sample: 1956. July 15, 1956. 8 pp.

4466 U.S. Bureau of the Census.
Current Population Reports. Series P-28. Special censuses. Washington, 1947-.
For a description of special censuses see 21:Titles 1295 and 4512.
No. 887. Special census of Los Angeles, California: February 25, 1956. May 17, 1956. 1 p. [Results of the special census of Los Angeles taken as of September 26, 1953, are shown in report No. 603, this series.]
No. 896. Special censuses conducted by the Bureau of the Census between January 1, 1956, and March 31, 1956. June 28, 1956. 2 pp.

4467 U.S. Bureau of the Census.
Current Population Reports. Series P-50. Labor force. Washington, 1947-.
Nos. 1-67. See 22:Title 3505.
No. 68. Work experience of the population in 1955. June, 1956. 32 pp. ["This report presents data on the extent and type of work experience during the calendar year 1955, including information on time lost from work because of unemployment and other reasons."]

4468 U.S. Bureau of the Census.
Current Population Reports. Series P-57. Labor force. The monthly report on the labor force.... Washington, 1947-.
No. 169, the report for July 1956, was issued in August. 12, 3 pp.

4469 U.S. Bureau of the Census.
Current Population Reports. Series P-60. Consumer income. Washington, 1948-.
Nos. 1-20. See 22:Title 2517.
No. 21. Income of men at all time high in 1955. May, 1956. 2 pp. [Advance data, March 1956 sample survey.]

[See also Titles 4177, 4193]

SOUTH AMERICA

Brazil

4470 Brazil. Serviço Nacional de Recenseamento.
[Sixth general census of Brazil, 1950. Regional series.] VI recenseamento geral do Brasil, 1950. Série regional. Rio de Janeiro, 1954-.
In addition to the volumes already cited

(see 22:Title 1418) those for Estado do Maranhão: censo demográfico and for Estado do Rio Grande do Norte: censo demográfico were issued in 1955.°

Colombia

4471 Colombia. Departamento Administrativo Nacional de Estadística.

[Population census of May 9, 1951.] Censo de población de 1951, mayo 9. Bogotá, 1954-.

Departamento de Antioquia. Feb., 1956. 348 pp.

Departamento de Bolivar. April, 1956. 252 pp.

For previous citations see 22:Title 2519.

Ecuador

4472 Ecuador. Dirección General de Estadística y Censos.

[First national census of population, November 29, 1950. Definite results.] Primer censo nacional de población, 29 de noviembre de 1950. Resultados definitivos. Quito, 1953-.

Tomo 1. Provincia de Guayas.

See also 21:Titles 3397 and 4525.

Venezuela

4473 Venezuela. Dirección General de Estadística y Censos Nacionales.

[Eighth general population census, November 26, 1950.] Octavo censo general de población (26 de noviembre de 1950). Principales resultados. Caracas, 1953-.

II. Estados Apure y Aragua. 1955. XLIV, 260 pp. plus 16 pp. of graphics; XXXVI, 294 pp. plus 18 pp. of graphics. [Bound as one volume.]

Contents for each state: Population [comparative figures 1936, 1941, and 1950; detailed figures, 1950.] Families and dwellings [comparative figures, 1941 and 1950; detailed figures, 1950.] Populated centers and administrative divisions.

EUROPE

Bulgaria

4474 Bulgaria. Direction Générale de la Statistique.

[Preliminary results of the population census of December 31, 1946: population figures by places.] Résultats préliminaires du recensement de la population au 31 décembre 1946: nombre de la population par localités. Sofia, 1947. xii, 106 pp.°

Belgium

[See Title 4311]

Germany

4475 Germany. Federal Republic. Statistisches Bundesamt.

[The occupational and social distribution of the population of the Federal Republic of Germany according to the census of September 13, 1950.] Die berufliche und soziale Gliederung der Bevölkerung der Bundesrepublik Deutschland nach der Zählung vom 13. September 1950. Statistik der Bundesrepublik Deutschland, Bände 36 and 37. Stuttgart and Cologne, Kohlhammer, 1953-.

Teil I. Band 36:

Hefte 1-2. See 20(4):Title 1763.

Heft 3. Textheft. 1956. 42 pp.; 2 folding maps.

Teil II. Band 37:

Hefte 1-4. See 20(4):Title 1763.

Heft 5. Textheft. 1956. 36 pp.; folding map.

4476 Germany. Federal Republic. Statistisches Bundesamt.

[The population of the German Federal Republic according to the census of September 13, 1950.] Die Bevölkerung der Bundesrepublik Deutschland nach der Zählung vom 13.9.1950. Statistik der Bundesrepublik Deutschland, Band 35. Stuttgart and Cologne, W. Kohlhammer, 1952-.

Hefte 1-6. See 20(4):Title 1763.

Hefte 7, 8. See 21:Title 2414.

Heft 9. [Text.] 1956. 118 pp.; 4 folding maps.

4477 Germany. Federal Republic. North Rhine-Westphalia. Statistisches Landesamt.

[Vital statistics and causes of death in North Rhine-Westphalia, 1951-1953.] Die natürliche Bevölkerungsbewegung und die Todesursachen in Nordrhein-Westfalen 1951-1953. Beiträge zur Statistik des Landes Nordrhein-Westfalen, Heft 62. Düsseldorf, 1956. IV, 336 pp.

[See also Titles 4088, 4234, 4430]

Italy

4478 Italy. Istituto Centrale di Statistica.

[Ninth general census of population, November 4, 1951.] IX censimento generale della popolazione 4 novembre 1951. Rome, 1952-.

Vol. I. [Summary data by communes.] Dati sommari per comune. Parts for the following provinces have been issued in addition to those already cited (see 22:Title

3510): Asti, Brescia, Como, Novara, Padova.

Liechtenstein

4479 Liechtenstein. Fürstliche Regierung.

[Population census of Liechtenstein, December 1, 1950.] Liechtensteinische Volkszählung 1. Dezember 1950. Vaduz, 1953. xii, 41 pp.°

Luxembourg

4480 Luxembourg. Service d'Etudes et de Documentation Economiques, and Office de la Statistique Générale.

[Census of the working population, October, 1951.] Recensement de l'artisanat au 21 octobre 1951. Bulletin du Service d'Etudes et de Documentation Economiques et de l'Office de la Statistique Générale 5(2): 131-316. April-June, 1954.°

Sweden

4481 Sweden. Statistiska Centralbyrån.

[Population census of December 31, 1945.] Folkräkningen den 31 December 1945. Stockholm, 1947-.

XI. [Account of the crude tables, their content, etc.] Redogörelse för råtabellernas innehåll m. m. 1954. xi, 8*, 363 pp.°

See 18(4): Title 1788 and 21: Title 2420 for citations to other parts of the 1945 census.

4482 Sweden. Statistiska Centralbyrån.

Census of the population, December 31, 1950. Folkräkningen den 31 December 1950. Stockholm, 1952-. With English summaries and titles.

Vol. IV. Total enumeration. Population by occupation in communes, parishes and population clusters. Totala räkningen — folkmängden efter yrke i kommuner, församlingar och tätorter. 1954. vii, 6°, 489, [6] pp.°

Vol. V. Total enumeration. Population by age, sex and marital status. Totala räkningen — folkmängden efter ålder, kön och civilstånd. 1955. xii, 138, [6] pp.°

Vol. VII. Sample surveys. Statistics of income. Urvalsundersökningar. Statistiken över inkomst. 1956. XVI, 78°, 94 pp.

For citations to Vols. I-III and VI, see 22: Title 2528.

United Kingdom

4483 Great Britain. General Register Office, England and Wales.

Census, 1951, England and Wales. Classification of occupations. London, 1956. xvi, 218 pp.

This is a revised edition of the classification published in preliminary edition in 1951 for use both in connection with the 1951 census and in work on vital and health statistics. Introduction discusses occupational classification and social class grouping and gives the instructions for coding. A summary and the detailed lists of classified occupations are followed by an alphabetical list of occupations showing the code number of the group to which each is to be referred. The volumes containing the 1951 census of occupation tables will appear subsequently.

4484 Great Britain. General Register Office, England and Wales.

Census, 1951. England and Wales. County reports. London, H. M. Stationery Office, 1952-.

Reports have been issued for the following counties in addition to those already cited (see 21: Title 4541): Anglesey and Caernarvonshire, Cornwall, Denbighshire and Flintshire.

Corrigenda have been issued, obtainable gratis, for the following previously issued reports: Cumberland and Westmorland, Durham, Essex, Glamorganshire, Hertfordshire, Kent, Lancashire, Leicestershire, Lincolnshire and Rutland, London, Middlesex, Monmouthshire, Northamptonshire, Nottinghamshire, Staffordshire, Surrey, Sussex, Warwickshire, Yorkshire-East and North Riding, Yorkshire-West Riding.

4485 Great Britain. General Register Office, England and Wales.

Census 1951, England and Wales. Report on Greater London and five other conurbations. London, H. M. Stationery Office, 1956. 352 pp.; 2 folding maps.

Introduction on definitions and statistical methods. General survey, summarizing characteristics. Analysis of differences within the conurbations under the headings: population growth, dwellings, households, housing density, education, social class, workplace movement. Comparison of the conurbations with each other. Beside Greater London, the conurbations are: Southeast Lancashire, West Midlands, West Yorkshire, Merseyside, Tyneside.

4486 Northern Ireland. General Register Office.

Census of population of Northern Ireland, 1951. County reports. Belfast, 1953-.

In addition to those already cited (see 21: Title 3417) the following has been issued: County of Armagh.°

U. S. S. R.

4487 U.S.S.R. TSentral'noe Statisticheskoe Upravlenie.

[The national economy of the USSR: a statistical compilation.] Narodnoe khoziastvo SSSR; statisticheskii sbornik. Moscow, the State Statistical Publishing House, 1956. a-j pp.; 270 pp. of tables. In Russian.

The first statistical handbook to be published since 1939. Population data include: estimates for 1940 and April 1956, of total, urban, and rural population and that of the republics and largest cities; birth and death rates per 1,000 population for 1940, 1950, 1953, 1955; workers in Soviet industry by broad occupational classification, 1940, 1950, 1955; employees in Soviet economy by industrial classification; percentages of women among employees, by industrial classification, January, 1940, and October, 1955; numbers of specialists with higher education and with medium-level education, by professional groups, Jan. 1, 1941, and July 1, 1955; elementary and high-school students, full-time college students, and scientific workers, 1940, 1950, 1955.

ASIA

Burma

4488 Burma. Census Department.

1953 stage census. Population. Series A. General data on age, sex, race, marital status, number of industries and farmers. Rangoon, Superintendent, Union Govt. Printing and Stationery, 1955. [viii], x, 352 pp., and 4 maps.

"Population Census was taken in two parts. The first part is called the Complete Population Census. Only 7 questions and 3 trigger questions were asked in this census. All permanent residents were enumerated. The second part is called the Sample Population Census. Twenty percent of the households enumerated in the Complete Population Census were included. Information on more important details in 32 questions was asked. All tables prepared from the Complete Population Census will be published as Series A and all tables prepared from the Sample Population Census will be published as Series B and C of the population tables.... The Chin Censuses are simple in nature and will be published in one issue without any series." [Advance releases cited in 22:Title 1438.]

China, People's Republic

[See Title 4292]

India

4489 India. [State....Superintendent of Census Operations.]

Census of India, 1951. [The final report.] Various places and dates of publication.

In addition to the volumes already cited (see 22:Title 2543) the following has been issued:

Vol. XI. Orissa. Cuttack, 1953-. Part I-C. Appendices.

Japan

4490 Japan. Bureau of Statistics.

Population census of 1950. Vol. VII. Report by prefecture. Tokyo, 1952-.

In addition to those volumes already cited (see 21:Title 1337) the volumes for the following prefectures have now been issued: Akita, Chiba, Ibaraki, Kagawa, Kanagawa, Nagasaki, Shiga, Tukushima.

[See also Title 4120]

Thailand

4491 Thailand. Central Statistical Office.

[Census of population, 1947, final figures.] Pp. [3]-[63] in: Statistical year book, Thailand, n.s., Vol. 1, 2495(1952). [Bangkok, 1953].°

AFRICA

Federation of Rhodesia and Nyasaland

4492 Federation of Rhodesia and Nyasaland. Northern Rhodesia.

Report on the census of population, 1951. Lusaka, 1954. 70 pp.°

Mozambique

4493 Mozambique. Repartição Técnica de Estatística.

[General census of population, 1950. III. The non-civilized population.] Recenseamento geral da população em 1950. III. População não civilizada. Lourenço Marques, 1955. XLII, 420, A-16 pp.

Text gives summary, comparison with

previous census, methodological notes, discussion of difficulties encountered. Tables include fertility data by age groups for districts and smaller administrative areas. Specimen forms are included.

For citations to Vols. I and II see 21:Title 1344.

Union of South Africa

4494 Union of South Africa. Office of Census and Statistics.

Population census, 8th May, 1951. Volume 2. Marital status of the white population of the Union of South Africa — with 1946 census figures for all races of the population. Unie van Suid-Afrika. Bevolkingsensus 8 mei 1951. Boekdeel II. Huwelikstaat van die blanke bevolking van die Unie van Suid-Afrika tesame met 1946-sensussyfers vir alle rasse van die bevolking. Pretoria, 1956. x, 154 pp.

Contains summary and charts comparing data of 1911, 1921, 1936 and 1951.

OCEANIA

Australia

4495 Australia. Commonwealth Bureau of Census and Statistics.

Census of the Commonwealth of Australia, 30th June, 1954. Canberra, Govt. Printer, 1955-.

Vol. I. New South Wales. Part I. Analysis of population in local government areas, etc. 1955. 192 pp., folding map. Part V. Population and occupied dwellings in localities. 1955. 54 pp.

Vol. II. Victoria. Part V. Population and occupied dwellings in localities. 1955. 40 pp.

Vol. IV. South Australia. Part III. Analysis of dwellings in local government areas, etc. 1955.°

Vol. V. Western Australia. Part V. Population and occupied dwellings in localities. 1955.°

For citations to other 1954 census volumes see 22:Titles 1452 and 3527.

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STATISTICS

COMPLETE EXPECTATION OF LIFE ($\mathring{e}_x$) AT VARIOUS AGES IN SELECTED COUNTRIES /1

These figures are the most recent available since 1939 and are for countries with populations of 500,000 or more. No adjustment has been made for deficiencies, which in some cases may be serious. Unless otherwise noted the figures were taken from publications of the United Nations Statistical Office, which present mainly data officially submitted by governments.

Country	Years	Sex	Age					
			0	1	10	20	40	60
North America								
Canada /a	1950-52	M	66.33	68.33	60.15	50.76	32.45	16.49
		F	70.83	72.33	64.02	54.41	35.63	18.64
Costa Rica	1949-51	M, F	55.72	60.66	56.28	47.12	30.32	15.38
El Salvador	1949-51	M	49.94	54.31	52.85	44.48	30.24	16.94
		F	52.40	56.35	54.99	46.50	31.53	17.40
Jamaica (ex. dep.)	1950-52	M	55.73	59.85	54.46	45.26	28.63	14.30
		F	58.89	62.42	56.68	47.74	31.45	16.49
Mexico	1940	M	37.92	44.43	45.43	37.56	24.82	13.35
		F	39.79	46.22	47.86	40.01	26.60	13.54
Panama /b	1941-43	M	50.54	54.13	50.10	41.91	27.26	14.52
		F	53.46	56.58	52.48	44.28	30.15	16.38
Trinidad and Tobago	1950-52	M	56.31	60.50	53.19	44.01	27.06	13.04
		F	58.45	62.18	54.88	45.90	29.76	15.15
U.S., Continental	1949-51	M	65.47	66.73	58.35	48.92	30.79	15.68
		F	70.96	71.84	63.38	53.73	35.06	18.50
Whites /2	1954	M	67.4	68.3	59.8	50.3	31.8	16.2
		F	73.6	74.2	65.6	55.9	36.7	19.4
Nonwhites /2	1954	M	61.0	63.1	54.8	45.5	28.7	15.7
		F	65.8	67.4	59.1	49.5	31.9	18.3
South America								
Argentina	1947	M	56.9	61.7	54.7	45.6	28.2	13.8
		F	61.4	65.7	58.7	49.6	32.4	16.5
Chile /c	1952	M	49.84	56.83	51.39	42.67	27.25	13.99
		F	53.89	60.62	55.71	47.08	31.33	16.42
Venezuela /3	1941-42	M	45.83	51.24	48.19	39.92	26.21	14.00
		F	47.55	52.48	49.65	41.59	28.49	15.80
Europe								
Austria	1949-51	M	61.9	65.9	58.0	48.7	30.7	15.1
		F	67.0	70.1	62.2	52.6	34.2	17.3

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages in Selected Countries (Continued)

Country	Years	Sex	Age 0	1	10	20	40	60
Europe (cont.)								
Belgium	1946-49	M	62.0	65.3	57.4	48.0	30.6	15.5
		F	67.3	69.7	61.7	52.3	34.2	17.5
Denmark	1946-50	M	67.8	70.0	61.7	52.2	33.8	17.1
		F	70.1	71.7	63.3	53.6	35.0	17.9
Finland	1946-50	M	58.59	61.09	53.44	44.40	28.02	13.75
		F	65.87	67.97	60.18	51.02	33.59	16.79
France	1950-51	M	63.6	66.1	57.9	48.4	30.4	15.1
		F	69.3	71.2	63.0	53.4	35.0	18.1
Germany Federal Republic	1949-51	M	64.6	67.8	59.8	50.3	32.3	16.2
		F	68.5	71.0	62.8	53.2	34.7	17.5
Hungary	1941	M	54.92	61.75	55.27	46.65	30.14	15.00
		F	58.22	64.00	57.32	48.73	32.12	16.03
Ireland	1945-47	M	60.5	64.4	56.9	47.8	30.6	15.1
		F	62.4	65.5	57.9	48.8	32.1	16.4
Netherlands	1950-52	M	70.6	71.6	63.4	53.7	34.9	17.8
		F	72.9	73.5	65.1	55.4	36.3	18.6
Norway	1946-50	M	69.25	70.70	62.63	53.25	35.16	18.39
		F	72.65	73.56	65.24	55.64	36.96	19.45
Poland /4	1952-53	M	58.6	—	—	—	—	—
		F	64.2	—	—	—	—	—
Portugal	1949-52	M	55.52	60.98	56.13	47.02	30.26	15.12
		F	60.50	65.64	60.97	51.83	34.45	17.66
Spain	1940	M	47.1	52.4	48.6	40.0	25.4	12.4
		F	53.2	58.8	55.5	47.0	30.7	15.2
Sweden	1946-50	M	69.04	69.92	61.62	52.14	33.84	17.05
		F	71.58	72.08	63.58	53.95	35.29	18.03
Switzerland /5	1948-53	M	66.36	67.81	59.64	50.16	31.88	15.69
		F	70.85	71.86	63.55	53.86	35.02	17.77
United Kingdom								
England and Wales	1953	M	67.30	68.36	59.87	50.22	31.41	15.03
		F	72.44	73.19	64.64	54.88	35.86	18.49
Scotland	1954	M	65.53	66.90	58.48	48.83	30.25	14.52
		F	70.53	71.47	62.90	53.14	34.31	17.39
Asia								
Ceylon /6	1954	M	60.3	64.3	60.2	51.0	33.1	16.6
		F	59.4	62.7	59.3	50.3	33.6	16.8

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages in Selected Countries (Continued)

Country	Years	Sex	Age					
			0	1	10	20	40	60
Asia (cont.)								
India /e	1941-50	M	32.45	39.00	38.97	33.03	20.53	10.13
		F	31.66	37.30	39.45	32.90	21.06	11.33
Israel (Jews)	1954	M	67.5	69.1	61.0	51.7	33.1	16.1
		F	70.5	71.9	63.7	54.0	35.0	17.7
Japan /f	1953	M	61.9	64.3	57.3	48.0	30.6	15.0
		F	65.7	67.7	60.8	51.4	33.9	17.7
Thailand	1947-48	M	48.7	52.0	47.9	39.8	25.6	12.7
		F	51.9	55.2	50.9	42.7	28.4	14.2
Africa								
Belgian Congo								
African population /g	1950-52	M	37.64	42.45	41.40	34.41	21.48	10.63
		F	40.00	44.14	43.23	36.29	23.33	12.27
Mauritius (ex. dep.) /h	1952	M	49.79	54.71	49.23	40.11	23.58	11.18
		F	52.29	56.74	52.22	43.67	28.75	14.59
Union of South Africa								
Europeans	1945-47	M	63.78	65.51	57.71	48.35	30.38	15.34
		F	68.31	69.63	61.73	52.27	34.07	18.04
Asiatics	1945-47	M	50.70	54.29	48.78	40.22	24.82	11.97
		F	49.75	52.82	47.47	39.30	24.78	11.96
Oceania								
Australia /i	1946-48	M	66.07	67.25	59.04	49.64	31.23	15.36
		F	70.63	71.45	63.11	53.47	34.91	18.11
New Zealand								
Europeans	1950-52	M	68.29	69.03	60.60	51.15	32.65	16.19
		F	72.43	72.90	64.37	54.64	35.64	18.53
Maoris	1950-52	M	54.05	57.69	50.99	42.21	26.41	12.81
		F	55.88	59.08	52.05	43.29	27.00	14.41

a/ Excluding Yukon and Northwest Territories.
b/ Excluding tribal Indians and data for Canal Zone.
c/ Excluding Amerindians, numbering 16,322 at 1946 census.
d/ Area as of date.
e/ Data relate to an area with 294,749,000 inhabitants at the census in 1951. Values for ages under 5 and 60 and over are estimated.
f/ Japanese nationals in Japan only. Excluding Amami Islands acquired from Ryukyu Islands December 25, 1953.
g/ Based on sample surveys of approximately 4 per cent of population.
h/ Excluding Chinese population.
i/ Excluding full-blooded aborigines.

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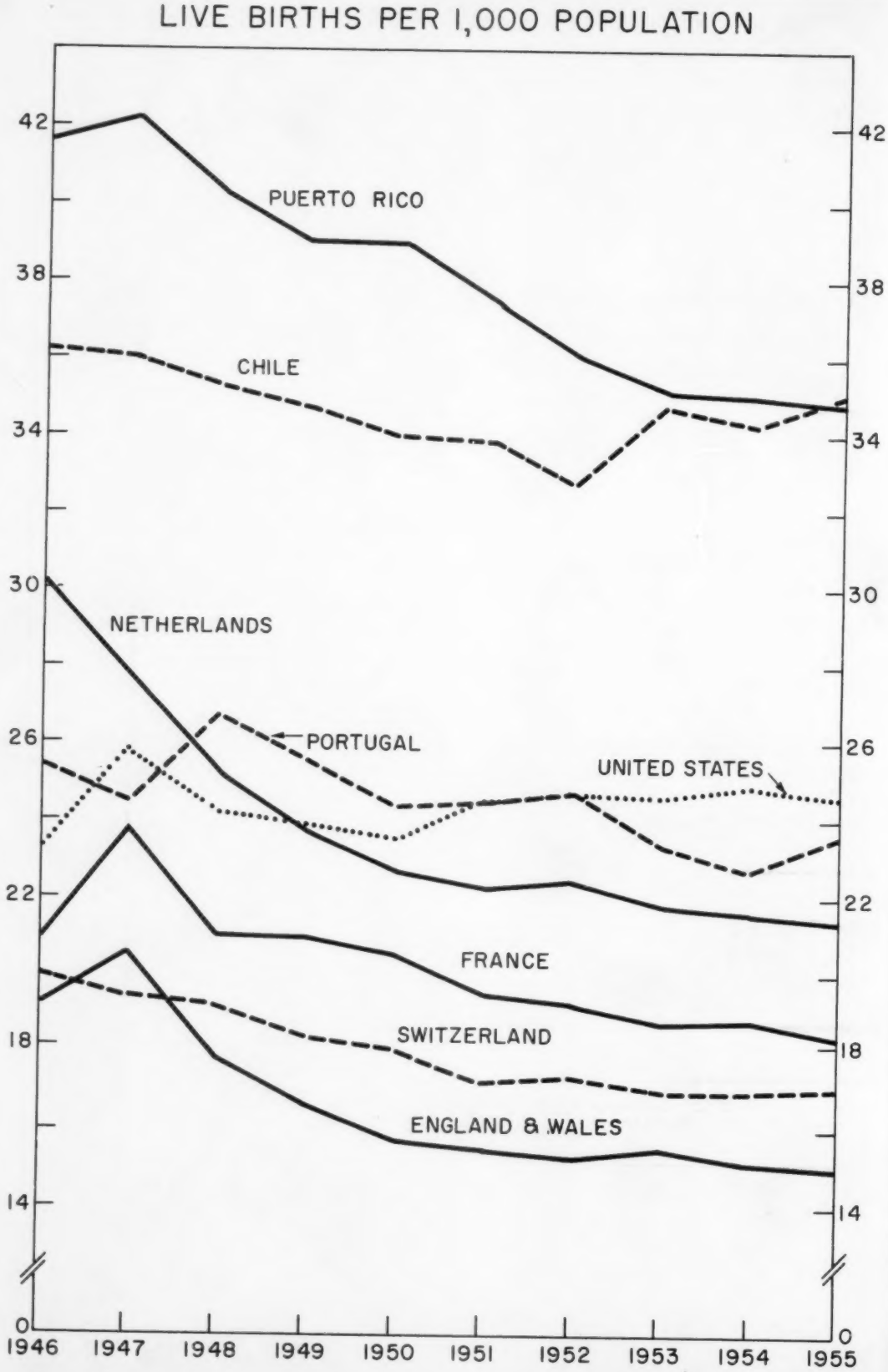
ADDENDUM

The following figures for $\mathring{e}_x$ for Haiti, 1950, were received too late for inclusion in the above table:

Age:	0	1	10	20	40	60
$\mathring{e}_x$ (M & F):	32.61	38.37	38.87	34.41	24.38	15.54

Source: Haiti. Institut Haïtien de Statistique. "Table de survie de la population haïtienne." Bulletin Trimestriel de Statistique, No. 21, June, 1956. Pp. 24-26.


LIVE BIRTHS PER 1,000 POPULATION
PUERTO RICO
CHILE
NETHERLANDS
PORTUGAL
UNITED STATES
FRANCE
SWITZERLAND
ENGLAND & WALES
42
38
34
30
26
22
18
14
0
1946
1947
1948
1949
1950
1951
1952
1953
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1955

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POPULATION INDEX

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